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(12) **United States Patent**
Storer et al.(10) **Patent No.:** **US 7,608,600 B2**(45) **Date of Patent:** ***Oct. 27, 2009**(54) **MODIFIED 2' AND 3'-NUCLEOSIDE
PRODRUGS FOR TREATING FLAVIVIRIDAE
INFECTIONS**(75) **Inventors:** **Richard Storer**, Folkstone (GB); **Gilles Gosselin**, Montpellier (FR); **Jean-Pierre Sommadossi**, Cambridge, MA (US); **Paola LaColla**, Cagliari (IT)(73) **Assignees:** **Idenix Pharmaceuticals, Inc.**, Cambridge, MA (US); **University of Cagliari**, Cagliari (IT); **Centre National de la Recherche Scientifique**, Paris (FR); **L'Universite Montpellier II**, Montpellier (FR)(*) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 918 days.

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See application file for complete search history.

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Primary Examiner—Traviss C McIntosh, III(74) *Attorney, Agent, or Firm*—Jones Day(57) **ABSTRACT**

2' and/or 3' prodrugs of 1', 2', 3' or 4'-branched nucleosides, and their pharmaceutically acceptable salts and derivatives are described. These prodrugs are useful in the prevention and treatment of Flaviviridae infections, including HCV infection, and other related conditions. Compounds and compositions of the prodrugs of the present invention are described. Methods and uses are also provided that include the administration of an effective amount of the prodrugs of the present invention, or their pharmaceutically acceptable salts or derivatives. These drugs may optionally be administered in combination or alteration with further anti-viral agents to prevent or treat Flaviviridae infections and other related conditions.

85 Claims, 4 Drawing Sheets

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 Office Action dated Sep. 26, 2006 from U.S. Appl. No. 11/005,468.
 Office Action dated Jun. 14, 2007 from U.S. Appl. No. 11/005,468.
 Office Action dated Oct. 2, 2007 from U.S. Appl. No. 11/005,468.
 Office Action dated Oct. 5, 2006 from U.S. Appl. No. 11/005,469.
 Office Action dated Jul. 18, 2007 from U.S. Appl. No. 11/005,469.
 Office Action dated Mar. 24, 2008 from U.S. Appl. No. 11/005,469.
 Notice of Allowance dated Oct. 12, 2006 from U.S. Appl. No. 11/005,470.
 Notice of Allowance dated Mar. 7, 2007 from U.S. Appl. No. 11/005,470.
 Notice of Allowance dated Aug. 22, 2007 from U.S. Appl. No. 11/005,470.
 Office Action dated Jul. 18, 2007 from U.S. Appl. No. 11/005,471.
 Office Action dated Feb. 28, 2008 from U.S. Appl. No. 11/005,471.
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 Office Action dated Dec. 5, 2006 from U.S. Appl. No. 11/005,472.
 Office Action dated Jun. 13, 2007 from U.S. Appl. No. 11/005,472.
 Office Action dated Oct. 9, 2007 from U.S. Appl. No. 11/005,472.
 Office Action dated Nov. 25, 2005 from U.S. Appl. No. 11/005,473.
 Notice of Allowance dated Aug. 8, 2006 from U.S. Appl. No. 11/005,473.

* cited by examiner

Chemical structures of 12 nucleoside analogs and two nucleosides:

- 1. 2-aminopurine-9-β-D-ribofuranoside
- 2. 2-aminopyrimidine-9-β-D-ribofuranoside
- 3. 2-thiopyrimidine-9-β-D-ribofuranoside
- 4. 2-thiopurine-9-β-D-ribofuranoside
- 5. 2-aminopurine-9-β-D-ribofuranoside
- 6. 2-aminopyrimidine-9-β-D-ribofuranoside
- 7. 2-thiopyrimidine-9-β-D-ribofuranoside
- 8. 2-thiopurine-9-β-D-ribofuranoside
- 9. 2-aminopurine-9-β-D-ribofuranoside
- 10. 2-aminopyrimidine-9-β-D-ribofuranoside
- 11. 2-thiopyrimidine-9-β-D-ribofuranoside
- 12. 2-thiopurine-9-β-D-ribofuranoside
- 13. FIAU (2-fluoro-9-iodo-2,9-dihydro-1H-pyrimidin-6-one)
- 14. Ribavirin (1-β-D-ribofuranosyl-1H-1,2,4-triazol-3-amine)

Figure 2

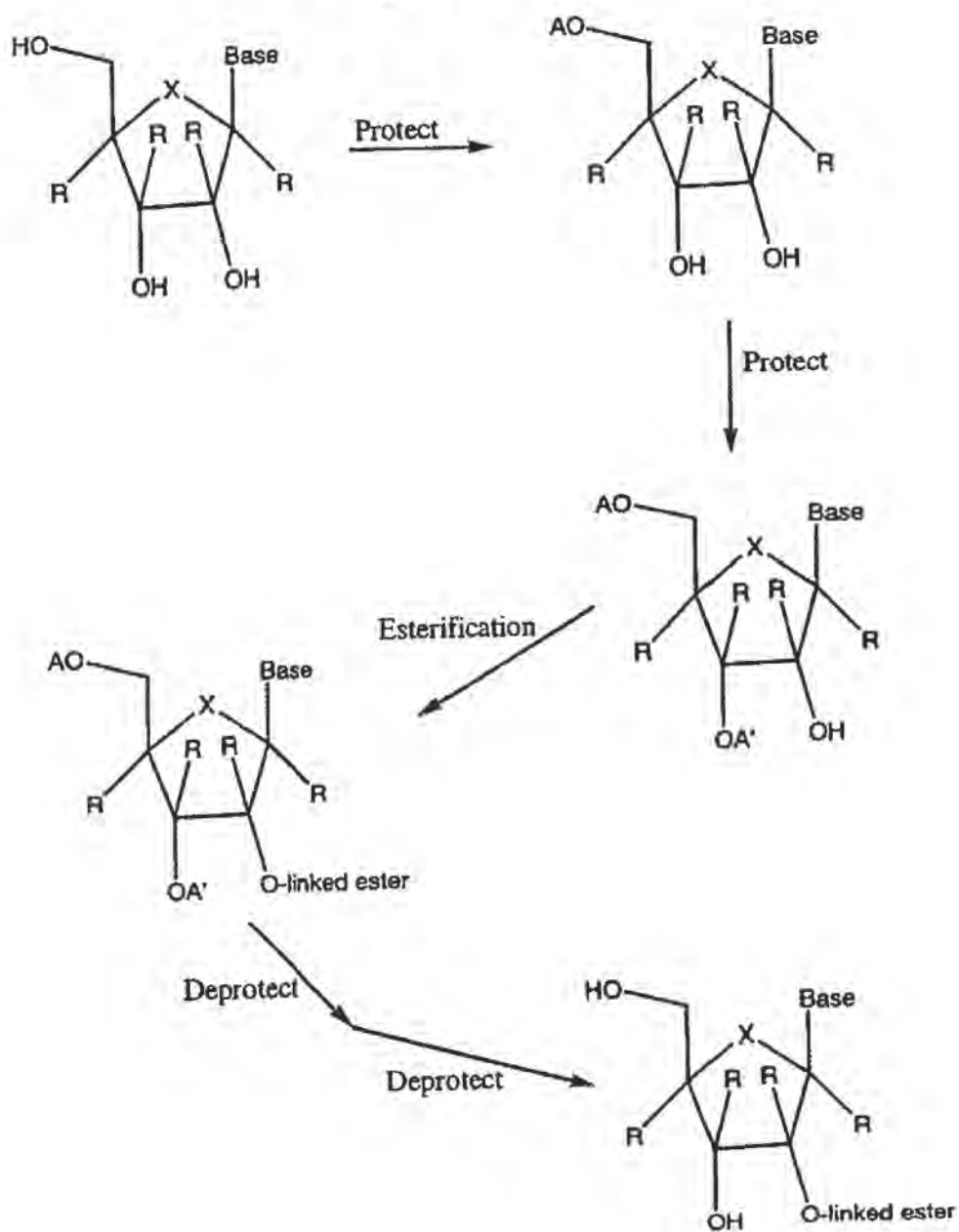


Figure 3

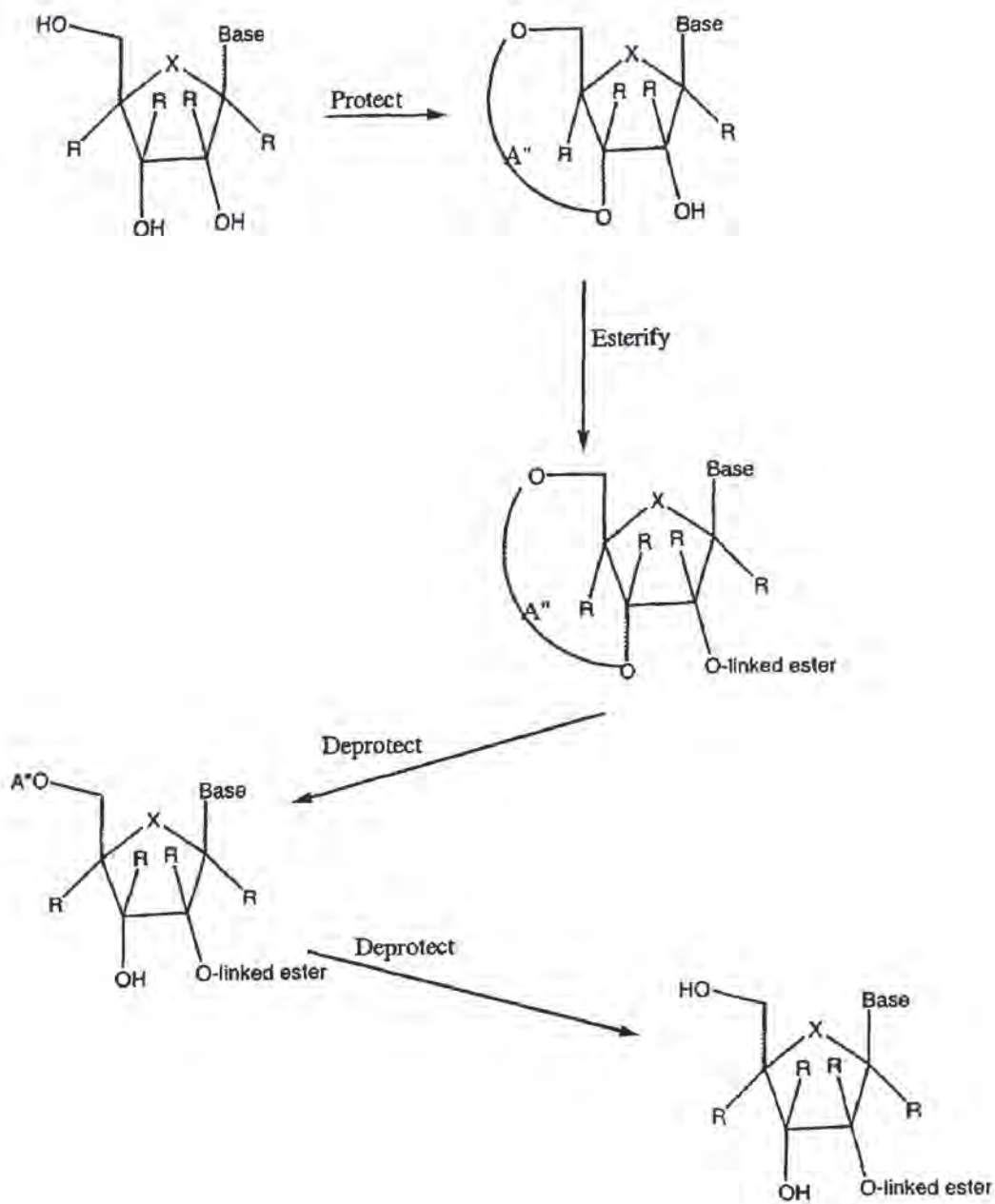
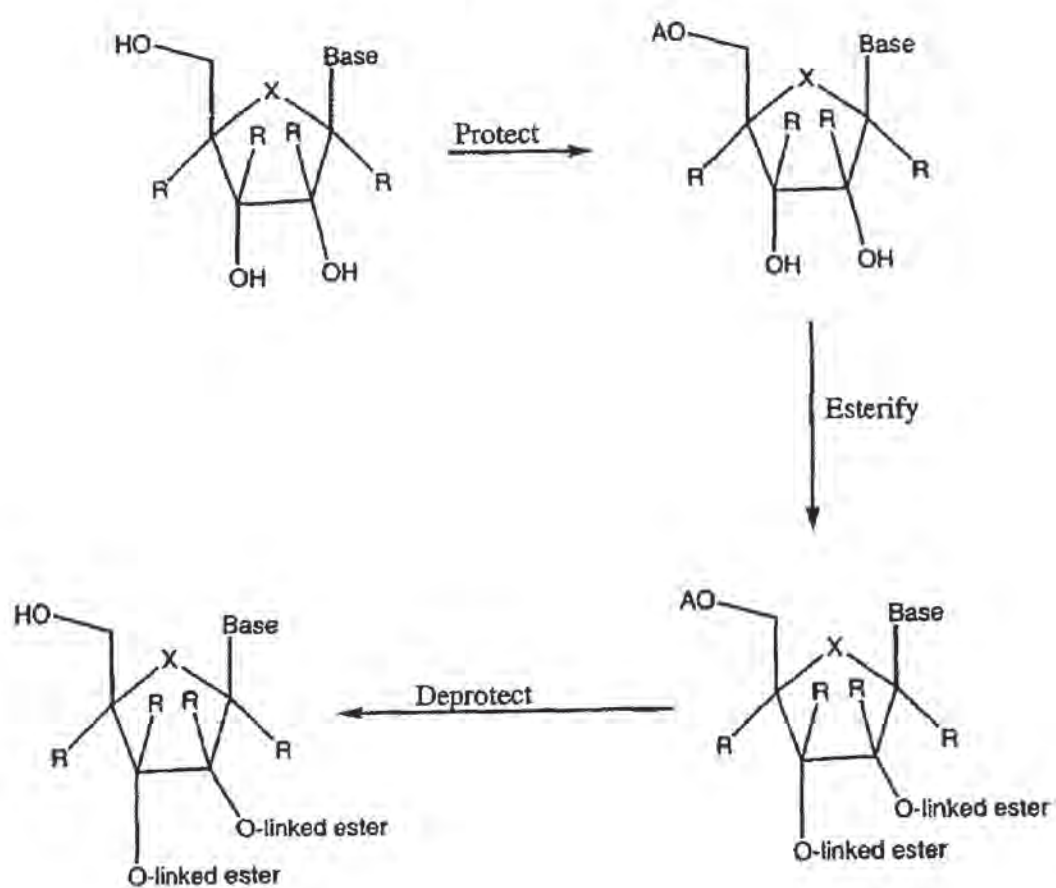


Figure 4



1

MODIFIED 2' AND 3'-NUCLEOSIDE PRODRUGS FOR TREATING FLAVIVIRIDAE INFECTIONS

CROSS-REFERENCE TO RELATED APPLICATIONS

This application claims the benefit of priority to U.S. Provisional application No. 60/392,350, filed Jun. 28, 2002; U.S. Provisional Application No. 60/466,194, filed Apr. 28, 2003; and U.S. Provisional Application No. 60/470,949, filed May 14, 2003, the disclosures of each of which are incorporated herein by reference.

FIELD OF THE INVENTION

This invention is in the area of pharmaceutical chemistry, and is in particular, a 2' and/or 3' prodrug of 6-modified, 1', 2', 3' or 4'-branched pyrimidine nucleoside or 8-modified, 1', 2', 3' or 4'-branched purine nucleoside for the treatment of a Flaviviridae infection, such as a hepatitis C virus infection.

BACKGROUND OF THE INVENTION

Flaviviridae Viruses

The Flaviviridae family of viruses comprises at least three distinct genera: *pestiviruses*, which cause disease in cattle and pigs; *flaviviruses*, which are the primary cause of diseases such as dengue fever and yellow fever; and *hepaciviruses*, whose sole member is HCV. The *flavivirus* genus includes more than 68 members separated into groups on the basis of serological relatedness (Calisher et al., *J. Gen. Virol.*, 1993, 70, 37-43). Clinical symptoms vary and include fever, encephalitis and hemorrhagic fever (*Fields Virology*, Editors: Fields, B. N., Knipe, D. M., and Howley, P. M., Lippincott-Raven Publishers, Philadelphia, Pa., 1996, Chapter 31, 931-959). *Flaviviruses* of global concern that are associated with human disease include the dengue hemorrhagic fever viruses (DHF), yellow fever virus, shock syndrome and Japanese encephalitis virus (Halstead, S. B., *Rev. Infect. Dis.*, 1984, 6, 251-264; Halstead, S. B., *Science*, 239:476-481, 1988; Monath, T. P., *New Eng. J. Med.*, 1988, 319, 641-643).

The *pestivirus* genus includes bovine viral diarrhea virus (BVDV), classical swine fever virus (CSFV, also called hog cholera virus) and border disease virus (BDV) of sheep (Moennig, V. et al. *Adv. Vir. Res.* 1992, 41, 53-98). *pestivirus* infections of domesticated livestock (cattle, pigs and sheep) cause significant economic losses worldwide. BVDV causes mucosal disease in cattle and is of significant economic importance to the livestock industry (Meyers, G. and Thiel, H.-J., *Advances in Virus Research*, 1996, 47, 53-118; Moennig V., et al., *Adv. Vir. Res.* 1992, 41, 53-98). Human *pestiviruses* have not been as extensively characterized as the animal *pestiviruses*. However, serological surveys indicate considerable *pestivirus* exposure in humans.

Pestiviruses and *hepaciviruses* are closely related virus groups within the Flaviviridae family. Other closely related viruses in this family include the GB virus A, GB virus A-like agents, GB virus-B and GB virus-C (also called hepatitis G virus, HGV). The *hepacivirus* group (hepatitis C virus; HCV) consists of a number of closely related but genotypically distinguishable viruses that infect humans. There are approximately 6 HCV genotypes and more than 50 subtypes. Due to the similarities between *pestiviruses* and *hepaciviruses*, combined with the poor ability of *hepaciviruses* to grow efficiently in cell culture, bovine viral diarrhea virus (BVDV) is often used as a surrogate to study the HCV virus.

2

The genetic organization of *pestiviruses* and *hepaciviruses* is very similar. These positive stranded RNA viruses possess a single large open reading frame (ORF) encoding all the viral proteins necessary for virus replication. These proteins are expressed as a polyprotein that is co- and post-translationally processed by both cellular and virus-encoded proteinases to yield the mature viral proteins. The viral proteins responsible for the replication of the viral genome RNA are located within approximately the carboxy-terminal. Two-thirds of the ORF are termed nonstructural (NS) proteins. The genetic organization and polyprotein processing of the nonstructural protein portion of the ORF for *pestiviruses* and *hepaciviruses* is very similar. For both the *pestiviruses* and *hepaciviruses*, the mature nonstructural (NS) proteins, in sequential order from the amino-terminus of the nonstructural protein coding region to the carboxy-terminus of the ORF, consist of p7, NS2, NS3, NS4A, NS4B, NS5A, and NS5B.

The NS proteins of *pestiviruses* and *hepaciviruses* share sequence domains that are characteristic of specific protein functions. For example, the NS3 proteins of viruses in both groups possess amino acid sequence motifs characteristic of serine proteinases and of helicases (Gorbalenya et al. (1988) *Nature* 333:22; Bazan and Fletterick (1989) *Virology* 171: 637-639; Gorbalenya et al. (1989) *Nucleic Acid Res.* 17:3889-3897). Similarly, the NS5B proteins of *pestiviruses* and *hepaciviruses* have the motifs characteristic of RNA-directed RNA polymerases (Koonin, E. V. and Dolja, V. V. (1993) *Crit. Rev. Biochem. Molec. Biol.* 28:375-430).

The actual roles and functions of the NS proteins of *pestiviruses* and *hepaciviruses* in the lifecycle of the viruses are directly analogous. In both cases, the NS3 serine proteinase is responsible for all proteolytic processing of polyprotein precursors downstream of its position in the ORF (Wiskerchen and Collett (1991) *Virology* 184:341-350; Bartenschlager et al. (1993) *J. Virol.* 67:3835-3844; Eckart et al. (1993) *Biochem. Biophys. Res. Comm.* 192:399-406; Grakoui et al. (1993) *J. Virol.* 67:2832-2843; Grakoui et al. (1993) *Proc. Natl. Acad. Sci. USA* 90:10583-10587; Hijikata et al. (1993) *J. Virol.* 67:4665-4675; Tome et al. (1993) *J. Virol.* 67:4017-4026). The NS4A protein, in both cases, acts as a cofactor with the NS3 serine protease (Bartenschlager et al. (1994) *J. Virol.* 68:5045-5055; Failla et al. (1994) *J. Virol.* 68: 3753-3760; Lin et al. (1994) 68:8147-8157; Xu et al. (1997) *J. Virol.* 71:5312-5322). The NS3 protein of both viruses also functions as a helicase (Kim et al. (1995) *Biochem. Biophys. Res. Comm.* 215: 160-166; Jin and Peterson (1995) *Arch. Biochem. Biophys.*, 323:47-53; Warriner and Collett (1995) *J. Virol.* 69:1720-1726). Finally, the NS5B proteins of *pestiviruses* and *hepaciviruses* have the predicted RNA-directed RNA polymerases activity (Behrens et al. (1996) *EMBO J.* 15:12-22; Lehmann et al. (1997) *J. Virol.* 71:8416-8428; Yuan et al. (1997) *Biochem. Biophys. Res. Comm.* 232:231-235; Hagedorn, PCT WO 97/12033; Zhong et al. (1998) *J. Virol.* 72:9365-9369).

Hepatitis C Virus

The hepatitis C virus (HCV) is the leading cause of chronic liver disease worldwide. (Boyer, N. et al. *J. Hepatol.* 32:98-112, 2000). HCV causes a slow growing viral infection and is the major cause of cirrhosis and hepatocellular carcinoma (Di Besceglie, A. M. and Bacon, B. R., *Scientific American*, October: 80-85, (1999); Boyer, N. et al. *J. Hepatol.* 32:98-112, 2000). An estimated 170 million persons are infected with HCV worldwide. (Boyer, N. et al. *J. Hepatol.* 32:98-112, 2000). Cirrhosis caused by chronic hepatitis C infection

accounts for 8,000-12,000 deaths per year in the United States, and HCV infection is the leading indication for liver transplantation.

HCV is known to cause at least 80% of posttransfusion hepatitis and a substantial proportion of sporadic acute hepatitis. Preliminary evidence also implicates HCV in many cases of "idiopathic" chronic hepatitis, "cryptogenic" cirrhosis, and probably hepatocellular carcinoma unrelated to other hepatitis viruses, such as Hepatitis B Virus (HBV). A small proportion of healthy persons appear to be chronic HCV carriers, varying with geography and other epidemiological factors. The numbers may substantially exceed those for HBV, though information is still preliminary; how many of these persons have subclinical chronic liver disease is unclear. (The Merck Manual, ch. 69, p. 901, 16th ed., (1992)).

HCV is an enveloped virus containing a positive-sense single-stranded RNA genome of approximately 9.4 kb. The viral genome consists of a 5' untranslated region (UTR), a long open reading frame encoding a polyprotein precursor of approximately 3011 amino acids, and a short 3' UTR. The 5' UTR is the most highly conserved part of the HCV genome and is important for the initiation and control of polyprotein translation. Translation of the HCV genome is initiated by a cap-independent mechanism known as internal ribosome entry. This mechanism involves the binding of ribosomes to an RNA sequence known as the internal ribosome entry site (IRES). An RNA pseudoknot structure has recently been determined to be an essential structural element of the HCV IRES. Viral structural proteins include a nucleocapsid core protein (C) and two envelope glycoproteins, E1 and E2. HCV also encodes two proteinases, a zinc-dependent metalloproteinase encoded by the NS2-NS3 region and a serine proteinase encoded in the NS3 region. These proteinases are required for cleavage of specific regions of the precursor polyprotein into mature peptides. The carboxyl half of nonstructural protein 5, NS5B, contains the RNA-dependent RNA polymerase. The function of the remaining nonstructural proteins, NS4A and NS4B, and that of NS5A (the amino-terminal half of nonstructural protein 5) remain unknown.

A significant focus of current antiviral research is directed to the development of improved methods of treatment of chronic HCV infections in humans (Di Besceglie, A. M. and Bacon, B. R., *Scientific American*, October: 80-85, (1999)).

Treatment of HCV Infection with Interferon

Interferons (IFNs) have been commercially available for the treatment of chronic hepatitis for nearly a decade. IFNs are glycoproteins produced by immune cells in response to viral infection. IFNs inhibit replication of a number of viruses, including HCV, and when used as the sole treatment for hepatitis C infection, IFN can in certain cases suppress serum HCV-RNA to undetectable levels. Additionally, IFN can normalize serum amino transferase levels. Unfortunately, the effect of IFN is temporary and a sustained response occurs in only 8%-9% of patients chronically infected with HCV (Gary L. Davis, *Gastroenterology* 118:S104-S114, 2000). Most patients, however, have difficulty tolerating interferon treatment, which causes severe flu-like symptoms, weight loss, and lack of energy and stamina.

A number of patents disclose Flaviviridae, including HCV, treatments, using interferon-based therapies. For example, U.S. Pat. No. 5,980,884 to Blatt et al. discloses methods for retreatment of patients afflicted with HCV using consensus interferon. U.S. Pat. No. 5,942,223 to Bazer et al. discloses an anti-HCV therapy using ovine or bovine interferon-tau. U.S. Pat. No. 5,928,636 to Alber et al. discloses the combination therapy of interleukin-12 and interferon alpha for the treat-

ment of infectious diseases including HCV. U.S. Pat. No. 5,849,696 to Chretien et al. discloses the use of thymosins, alone or in combination with interferon, for treating HCV. U.S. Pat. No. 5,830,455 to Valtuena et al. discloses a combination HCV therapy employing interferon and a free radical scavenger. U.S. Pat. No. 5,738,845 to Imakawa discloses the use of human interferon tau proteins for treating HCV. Other interferon-based treatments for HCV are disclosed in U.S. Pat. No. 5,676,942 to Testa et al., U.S. Pat. No. 5,372,808 to Blatt et al. and U.S. Pat. No. 5,849,696. A number of patents also disclose pegylated forms of interferon, such as, U.S. Pat. Nos. 5,747,646, 5,792,834 and 5,834,594 to Hoffmann-La Roche Inc; PCT Publication No. WO 99/32139 and WO 99/32140 to Enzon; WO 95/13090 and U.S. Pat. Nos. 5,738,846 and 5,711,944 to Schering; and U.S. Pat. No. 5,908,621 to Glue et al.

Interferon alpha-2a and interferon alpha-2b are currently approved as monotherapy for the treatment of HCV. ROFERON®-A (Roche) is the recombinant form of interferon alpha-2a. PEGASYS® (Roche) is the pegylated (i.e. polyethylene glycol modified) form of interferon alpha-2a. INTRON®A (Schering Corporation) is the recombinant form of Interferon alpha-2b, and PEG-INTRON® (Schering Corporation) is the pegylated form of interferon alpha-2b.

Other forms of interferon alpha, as well as interferon beta, gamma, tau and omega are currently in clinical development for the treatment of HCV. For example, INTERFERON (interferon alphacon-1) by InterMune, OMNIFERON (natural interferon) by Viragen, ALBUFERON by Human Genome Sciences, REBIF (interferon beta-1a) by Ares-Serono, Omega Interferon by BioMedicine, Oral Interferon Alpha by Amarillo Biosciences, and interferon gamma, interferon tau, and interferon gamma-1b by InterMune are in development.

Ribavirin

Ribavirin (1-β-D-ribofuranosyl-1-1,2,4-triazole-3-carboxamide) is a synthetic, non-interferon-inducing, broad spectrum antiviral nucleoside analog sold under the trade name, Virazole (The Merck Index, 11th edition, Editor: Budavari, S., Merck & Co., Inc., Rahway, N.J., p 1304, 1989). U.S. Pat. No. 3,798,209 and RE29,835 disclose and claim ribavirin. Ribavirin is structurally similar to guanosine, and has in vitro activity against several DNA and RNA viruses including Flaviviridae (Gary L. Davis, *Gastroenterology* 118:S104-S114, 2000).

Ribavirin reduces serum amino transferase levels to normal in 40% of patients, but it does not lower serum levels of HCV-RNA (Gary L. Davis, *Gastroenterology* 118:S104-S114, 2000). Thus, ribavirin alone is not effective in reducing viral RNA levels. Additionally, ribavirin has significant toxicity and is known to induce anemia.

Ribavirin is not approved for monotherapy against HCV. It has been approved in combination with interferon alpha-2a or interferon alpha-2b for the treatment of HCV.

Combination of Interferon and Ribavirin

The current standard of care for chronic hepatitis C is combination therapy with an alpha interferon and ribavirin. The combination of interferon and ribavirin for the treatment of HCV infection has been reported to be effective in the treatment of interferon naïve patients (Battaglia, A. M. et al., *Ann. Pharmacother.* 34:487-494, 2000), as well as for treatment of patients when histological disease is present (Beren-guer, M. et al. *Antivir. Ther.* 3(Suppl. 3):125-136, 1998). Studies have shown that more patients with hepatitis C respond to pegylated interferon-alpha/ribavirin combination therapy than to combination therapy with unpegylated interferon alpha. However, as with monotherapy, significant side effects

develop during combination therapy, including hemolysis, flu-like symptoms, anemia, and fatigue. (Gary L. Davis, *Gastroenterology* 118:S104-S114, 2000).

Combination therapy with PEG-INTRON® (peginterferon alpha-2b) and REBETOL® (Ribavirin, USP) Capsules is available from Schering Corporation. REBETOL® (Schering Corporation) has also been approved in combination with INTRON® A (Interferon alpha-2b, recombinant, Schering Corporation). Roche's PEGASYS® (pegylated interferon alpha-2a) and COPEGUS® (ribavirin) are also approved for the treatment of HCV.

PCT Publication Nos. WO 99/59621, WO 00/37110, WO 01/81359, WO 02/32414 and WO 03/024461 by Schering Corporation disclose the use of pegylated interferon alpha and ribavirin combination therapy for the treatment of HCV. PCT Publication Nos. WO 99/15194, WO 99/64016, and WO 00/24355 by Hoffmann-La Roche Inc also disclose the use of pegylated interferon alpha and ribavirin combination therapy for the treatment of HCV.

Additional Methods to Treat Flaviviridae Infections

The development of new antiviral agents for flaviviridae infections, especially hepatitis C, is currently underway. Specific inhibitors of HCV-derived enzymes such as protease, helicase, and polymerase inhibitors are being developed. Drugs that inhibit other steps in HCV replication are also in development, for example, drugs that block production of HCV antigens from the RNA (IRES inhibitors), drugs that prevent the normal processing of HCV proteins (inhibitors of glycosylation), drugs that block entry of HCV into cells (by blocking its receptor) and nonspecific cytoprotective agents that block cell injury caused by the virus infection. Further, molecular approaches are also being developed to treat hepatitis C, for example, ribozymes, which are enzymes that break down specific viral RNA molecules, and antisense oligonucleotides, which are small complementary segments of DNA that bind to viral RNA and inhibit viral replication, are under investigation. A number of HCV treatments are reviewed by Bymock et al. in *Antiviral Chemistry & Chemotherapy*, 11:2, 79-95 (2000) and De Francesco et al. in *Antiviral Research*, 58: 1-16 (2003).

Examples of classes of drugs that are being developed to treat Flaviviridae infections include:

(1) Protease Inhibitors

Substrate-based NS3 protease inhibitors (Attwood et al., *Antiviral peptide derivatives*, PCT WO 98/22496, 1998; Attwood et al., *Antiviral Chemistry and Chemotherapy* 1999, 10, 259-273; Attwood et al., Preparation and use of amino acid derivatives as anti-viral agents, German Patent Pub. DE 19914474; Tung et al. Inhibitors of serine proteases, particularly hepatitis C virus NS3 protease, PCT WO 98/17679), including alphaketoamides and hydrazinoneas, and inhibitors that terminate in an electrophile such as a boronic acid or phosphonate (Llinas-Brunet et al. Hepatitis C inhibitor peptide analogues, PCT WO 99/07734) are being investigated.

Non-substrate-based NS3 protease inhibitors such as 2,4,6-trihydroxy-3-nitro-benzamide derivatives (Sudo K. et al., *Biochemical and Biophysical Research Communications*, 1997, 238, 643-647; Sudo K. et al. *Antiviral Chemistry and Chemotherapy*, 1998, 9, 186), including RD3-4082 and RD3-4078, the former substituted on the amide with a 14 carbon chain and the latter processing a para-phenoxyphenyl group are also being investigated.

Sch 68631, a phenanthrenequinone, is an HCV protease inhibitor (Chu M. et al., *Tetrahedron Letters* 37:7229-7232, 1996). In another example by the same authors, Sch 351633, isolated from the fungus *Penicillium griseofulvum*, was identified

as a protease inhibitor (Chu M. et al., *Bioorganic and Medicinal Chemistry Letters* 9:1949-1952). Nanomolar potency against the HCV NS3 protease enzyme has been achieved by the design of selective inhibitors based on the macromolecule eglin c. Eglin c, isolated from leech, is a potent inhibitor of several serine proteases such as *S. griseus* proteases A and B, α -chymotrypsin, chymase and subtilisin. Qasim M. A. et al., *Biochemistry* 36:1598-1607, 1997.

Several U.S. patents disclose protease inhibitors for the treatment of HCV. For example, U.S. Pat. No. 6,004,933 to Spruce et al. discloses a class of cysteine protease inhibitors for inhibiting HCV endopeptidase 2; U.S. Pat. No. 5,990,276 to Zhang et al. discloses synthetic inhibitors of hepatitis C virus NS3 protease. The inhibitor is a subsequence of a substrate of the NS3 protease or a substrate of the NS4A cofactor. The use of restriction enzymes to treat HCV is disclosed in U.S. Pat. No. 5,538,865 to Reyes et al. Peptides as NS3 serine protease inhibitors of HCV are disclosed in WO 02/008251 to Corvas International, Inc. and WO 02/08187 and WO 02/008256 to Schering Corporation. HCV inhibitor tripeptides are disclosed in U.S. Pat. Nos. 6,534,523, 6,410,531, and 6,420,380 to Boehringer Ingelheim and WO 02/060926 to Bristol Myers Squibb. Diaryl peptides as NS3 serine protease inhibitors of HCV are disclosed in WO 02/48172 to Schering Corporation. Imidazoleidinones as NS3 serine protease inhibitors of HCV are disclosed in WO 02/08198 to Schering Corporation and WO 02/48157 to Bristol Myers Squibb. WO 98/17679 to Vertex Pharmaceuticals and WO 02/48116 to Bristol Myers Squibb also disclose HCV protease inhibitors.

(2) Thiazolidine derivatives which show relevant inhibition in a reverse-phase HPLC assay with an NS3/4A fusion protein and NS5A/5B substrate (Sudo K. et al., *Antiviral Research*, 1996, 32, 9-18), especially compound RD-1-6250, possessing a fused cinnamoyl moiety substituted with a long alkyl chain, RD4 6205 and RD4 6193;

(3) Thiazolidines and benzanilides identified in Kakiuchi N. et al. *J. EBS Letters* 421, 217-220; Takeshita N. et al. *Analytical Biochemistry*, 1997, 247, 242-246;

(4) A phenanthrenequinone possessing activity against protease in a SDS-PAGE and autoradiography assay isolated from the fermentation culture broth of *Streptomyces* sp., Sch 68631 (Chu M. et al., *Tetrahedron Letters*, 1996, 37, 7229-7232), and Sch 351633, isolated from the fungus *Penicillium griseofulvum*, which demonstrates activity in a scintillation proximity assay (Chu M. et al., *Bioorganic and Medicinal Chemistry Letters* 9, 1949-1952);

(5) Helicase inhibitors (for example Diana G. D. et al., Compounds, compositions and methods for treatment of hepatitis C, U.S. Pat. No. 5,633,358; Diana G. D. et al., Piperidine derivatives, pharmaceutical compositions thereof and their use in the treatment of hepatitis C, PCT WO 97/36554);

(6) Nucleotide polymerase inhibitors and gliotoxin (Ferrari R. et al. *Journal of Virology*, 1999, 73, 1649-1654), and the natural product cerulenin (Lohmann V. et al., *Virology*, 1998, 249, 108-118);

(7) Antisense phosphorothioate oligodeoxynucleotides (S-ODN) complementary to sequence stretches in the 5' non-coding region (NCR) of the virus (Alt M. et al., *Hepatology*, 1995, 22, 707-717), or nucleotides 326-348 comprising the 3' end of the NCR and nucleotides 371-388 located in the core coding region of the HCV RNA (Alt M. et al., *Archives of Virology*, 1997, 142, 589-599; Galderisi U. et al., *Journal of Cellular Physiology*, 1999, 181, 251-257);

(8) Inhibitors of IRES-dependent translation (Ikeda N et al., Agent for the prevention and treatment of hepatitis C, Japanese Patent Pub. JP-08268890; Kai Y. et al. Prevention and treatment of viral diseases, Japanese Patent Pub. JP-10101591);

(9) Ribozymes, such as nuclease-resistant ribozymes (Maccjak, D. J. et al., *Hepatology* 1999, 30, abstract 995) and those disclosed in U.S. Pat. No. 6,043,077 to Barber et al., and U.S. Pat. Nos. 5,869,253 and 5,610,054 to Draper et al.; and

(10) Nucleoside analogs have also been developed for the treatment of Flaviviridae infections.

Idenix Pharmaceuticals discloses the use of branched nucleosides in the treatment of *flaviviruses* (including HCV) and *pestiviruses* in International Publication Nos. WO 01/90121 and WO 01/92282. Specifically, a method for the treatment of hepatitis C infection (and *flaviviruses* and *pestiviruses*) in humans and other host animals is disclosed in the Idenix publications that includes administering an effective amount of a biologically active 1', 2', 3' or 4'-branched β -D or β -L nucleosides or a pharmaceutically acceptable salt or derivative thereof, administered either alone or in combination with another antiviral agent, optionally in a pharmaceutically acceptable carrier.

Other patent applications disclosing the use of certain nucleoside analogs to treat hepatitis C virus include: PCT/CA00/01316 (WO 01/32153; filed Nov. 3, 2000) and PCT/CA01/00197 (WO 01/60315; filed Feb. 19, 2001) filed by BioChem Pharma, Inc., (now Shire Biochem, Inc.); PCT/US02/01531 (WO 02/057425; filed Jan. 18, 2002) and PCT/US02/03086 (WO 02/057287; filed Jan. 18, 2002) filed by Merck & Co., Inc., PCT/EP01/09633 (WO 02/18404; published Aug. 21, 2001) filed by Roche, and PCT Publication Nos. WO 01/79246 (filed Apr. 13, 2001), WO 02/32920 (filed Oct. 18, 2001) and WO 02/48165 by Pharmasset, Ltd.

PCT Publication No. WO 99/43691 to Emory University, entitled "2'-Fluoronucleosides" discloses the use of certain 2'-fluoronucleosides to treat HCV.

Eldrup et al. (Oral Session V, Hepatitis C Virus, Flaviviridae; 16th International Conference on Antiviral Research (Apr. 27, 2003, Savannah, Ga.)) described the structure activity relationship of 2'-modified nucleosides for inhibition of HCV.

Bhat et al. (Oral Session V, Hepatitis C Virus, Flaviviridae; 2003 (Oral Session V, Hepatitis C Virus, Flaviviridae; 16th International Conference on Antiviral Research (Apr. 27, 2003, Savannah, Ga.); p A75) describe the synthesis and pharmacokinetic properties of nucleoside analogues as possible inhibitors of HCV RNA replication. The authors report that 2'-modified nucleosides demonstrate potent inhibitory activity in cell-based replicon assays.

Olsen et al. (Oral Session V, Hepatitis C Virus, Flaviviridae; 16th International Conference on Antiviral Research (Apr. 27, 2003, Savannah, Ga.) p A76) also described the effects of the 2'-modified nucleosides on HCV RNA replication.

(11) Other miscellaneous compounds including 1-aminoalkylcyclohexanes (U.S. Pat. No. 6,034,134 to Gold et al.), alkyl lipids (U.S. Pat. No. 5,922,757 to Chojkier et al.), vitamin E and other antioxidants (U.S. Pat. No. 5,922,757 to Chojkier et al.), squalene, amantadine, bile acids (U.S. Pat. No. 5,846,964 to Ozeki et al.), N-(phosphonoacetyl)-L-aspartic acid, (U.S. Pat. No. 5,830,905 to Diana et al.), benzenedicarboxamides (U.S. Pat. No. 5,633,388 to Diana et al.), polyadenylic acid derivatives (U.S. Pat. No. 5,496,546 to Wang et al.), 2',3'-dideoxyinosine (U.S. Pat. No. 5,026,687 to Yar-

choan et al.), benzimidazoles (U.S. Pat. No. 5,891,874 to Colacino et al.), plant extracts (U.S. Pat. No. 5,837,257 to Tsai et al., U.S. Pat. No. 5,725,859 to Omer et al., and U.S. Pat. No. 6,056,961), and piperidines (U.S. Pat. No. 5,830,905 to Diana et al.).

(12) Other compounds currently in preclinical or clinical development for treatment of hepatitis C virus include: Interleukin-10 by Schering-Plough, IP-501 by Interneuron, Merimebodib (VX-497) by Vertex, AMANTADINE® (Symmetrel) by Endo Labs Solvay, HEP-TAZYME® by RPI, IDN-6556 by Idun Pharma., XTL-002 by XTL., HCV/MF59 by Chiron, CIVACIR® (Hepatitis C Immune Globulin) by NABI, LEVOVIRIN® by ICN/Ribapharm, VIRAMIDINE® by ICN/Ribapharm, ZADAXIN® (thymosin alpha-1) by SciClone, thymosin plus pegylated interferon by SciClone, CEPLENE® (histamine dihydrochloride) by Maxim, VX 950/LY 570310 by Vertex/Eli Lilly, ISIS 14803 by Isis Pharmaceutical/Elan, IDN-6556 by Idun Pharmaceuticals, Inc., JTK 003 by AKROS Pharma, BILN-2061 by Boehringer Ingelheim, CellCept (mycophenolate mofetil) by Roche, T67, a β -tubulin inhibitor, by Tularik, a therapeutic vaccine directed to E2 by Innogenetics, FK788 by Fujisawa Healthcare, Inc., IdB 1016 (Siliphos, oral silybin-phosphatidylcholine phytosome), RNA replication inhibitors (VP50406) by ViroPharma/Wyeth, therapeutic vaccine by Intercell, therapeutic vaccine by Epimmune/Genencor, IRES inhibitor by Anadys, ANA 245 and ANA 246 by Anadys, immunotherapy (Therapore) by Avant, protease inhibitor by Corvas/Schering, helicase inhibitor by Vertex, fusion inhibitor by Trimeris, T cell therapy by CellExSys, polymerase inhibitor by Biocryst, targeted RNA chemistry by PTC Therapeutics, Dication by Immtech, Int., protease inhibitor by Agouron, protease inhibitor by Chiron/Medivir, antisense therapy by AVI BioPharma, antisense therapy by Hybridon, hemopurifier by Aethlon Medical, therapeutic vaccine by Merix, protease inhibitor by Bristol-Myers Squibb/Axys, Chron-VacC, a therapeutic vaccine, by Tripep, UT 231B by United Therapeutics, protease, helicase and polymerase inhibitors by Genelabs Technologies, IRES inhibitors by Immusol, R803 by Rigel Pharmaceuticals, INFERGEN® (interferon alphacon-1) by InterMune, OMNIFERON® (natural interferon) by Viragen, ALBUFERON® by Human Genome Sciences, REBIF® (interferon beta-1a) by Ares-Serono, Omega Interferon by BioMedicine, Oral Interferon Alpha by Amarillo Biosciences, interferon gamma, interferon tau, and Interferon gamma-1b by InterMune.

Nucleoside prodrugs have been previously described for the treatment of other forms of hepatitis. WO 00/09531 (filed Aug. 10, 1999) and WO 01/96353 (filed Jun. 15, 2001) to Idenix Pharmaceuticals discloses 2'-deoxy- β -L-nucleosides and their 3'-prodrugs for the treatment of HBV. U.S. Pat. No. 4,957,924 to Beauchamp discloses various therapeutic esters of acyclovir.

In light of the fact that HCV infection has reached epidemic levels worldwide, and has tragic effects on the infected patient, there remains a strong need to provide new effective pharmaceutical agents to treat hepatitis C that have low toxicity to the host.

Further, given the rising threat of other flaviviridae infections, there remains a strong need to provide new effective pharmaceutical agents that have low toxicity to the host.

Therefore, it is an object of the present invention to provide a compound, method and composition for the treatment of a host infected with hepatitis C virus.

It is another object of the present invention to provide a method and composition generally for the treatment of patients infected with *pestiviruses*, *flaviviruses*, or *hepaciviruses*.

SUMMARY OF THE INVENTION

2' and 3'-prodrugs of 1', 2', 3' or 4'-branched β -D or β -L nucleosides, or their pharmaceutically acceptable salts or pharmaceutically acceptable formulations containing these compounds are useful in the prevention and treatment of Flaviviridae infections and other related conditions such as anti-Flaviviridae antibody positive and Flaviviridae-positive conditions, chronic liver inflammation caused by HCV, cirrhosis, acute hepatitis, fulminant hepatitis, chronic persistent hepatitis, and fatigue. These compounds or formulations can also be used prophylactically to prevent or retard the progression of clinical illness in individuals who are anti-Flaviviridae antibody or Flaviviridae-antigen positive or who have been exposed to a Flaviviridae.

A method for the treatment of a Flaviviridae viral infection in a host, including a human, is also disclosed that includes administering an effective amount of a 2' or 3'-prodrug of a biologically active 1', 2', 3' or 4'-branched β -D or β -L nucleoside or a pharmaceutically acceptable salt thereof, administered either alone or in combination or alternation with another anti-Flaviviridae agent, optionally in a pharmaceutically acceptable carrier. The term 2'-prodrug, as used herein, refers to a 1', 2', 3' or 4'-branched β -D or β -L nucleoside that has a biologically cleavable moiety at the 2'-position, including, but not limited to acyl, and in one embodiment, a natural or synthetic D or L amino acid, preferably an L-amino acid. The term 3'-prodrug, as used herein, refers to a 1', 2', 3' or 4'-branched β -D or β -L nucleoside that has a biologically cleavable moiety at the 3'-position, including, but not limited to acyl, and in one embodiment, a natural or synthetic D or L amino acid, preferably an L-amino acid.

Pharmaceutically acceptable salts include tosylate, methanesulfonate, acetate, citrate, malonate, tartrate, succinate, benzoate, ascorbate, α -ketoglutarate, and α -glycerophosphate, fumarate, fumarate, propionate, glycolate, lactate, pyruvate, oxalate, maleate, salicylate, sulfate, sulfonate, nitrate, bicarbonate, hydrobromate, hydrobromide, hydroiodide, carbonate, and phosphoric acid salts. A particularly preferred embodiment is the mono or dihydrochloride salt.

In one embodiment, the 1', 2', 3' or 4'-branched β -D or β -L nucleoside includes biologically cleavable moieties at the 2' and/or 5' positions. Preferred moieties are natural or synthetic D or L amino acid esters, including D or L-valyl, though preferably L-amino acid esters, such as L-valyl, and alkyl esters including acetyl. Therefore, this invention specifically includes 2'-D or L-amino acid ester and 2',5'-D or L-diamino acid ester, preferably L-amino acid ester, of 1', 2', 3' or 4'-branched β -D or β -L nucleosides with any desired purine or pyrimidine base, wherein the parent drug optionally has an EC_{50} of less than 15 micromolar, and even more preferably less than 10 micromolar; 2'-(alkyl or aryl) ester or 2',5'-di(alkyl or aryl) ester of 1', 2', 3' or 4'-branched β -D or β -L nucleosides with any desired purine or pyrimidine base, wherein the parent drug optionally has an EC_{50} of less than 10 or 15 micromolar; and prodrugs of 2',5'-diesters of 1', 2', 3' or 4'-branched β -D or β -L nucleosides wherein (i) the 2' ester is a natural or synthetic D or L-amino acid ester, though preferably an L-amino acid ester, and the 5'-ester is an alkyl or aryl ester; (ii) both esters are independently natural or synthetic D or L-amino acid ester, though preferably both are L-amino acid esters; (iii) both esters are independently alkyl or aryl

esters; and (iv) the 2' ester is independently an alkyl or aryl ester and the 5'-ester is a natural or synthetic D or L-amino acid ester, though preferably an L-amino acid ester, wherein the parent drug optionally has an EC_{50} of less than 10 or 15 micromolar.

Examples of prodrugs falling within the invention are 2'-D or L-valine ester of β -D-2',6-dimethyl-cytidine; 2'-L-valine ester of β -D-2',6-dimethyl-thymidine; 2'-L-valine ester of β -D-2',8-dimethyl-adenosine; 2'-L-valine ester of β -D-2',8-dimethyl-guanosine; 2'-L-valine ester of β -D-2',6-dimethyl-5-fluorocytidine; 2'-L-valine ester of β -D-2',6-dimethyl-uridine; 2'-acetyl ester of β -D-2',6-dimethyl-cytidine; 2'-acetyl ester of β -D-2',6-dimethyl-thymidine; 2'-acetyl ester of β -D-2',8-dimethyl-adenosine; 2'-acetyl ester of β -D-2',8-dimethyl-guanosine; 2'-acetyl ester of β -D-2',6-dimethyl-5-fluorocytidine; and 2'-esters of β -D-2',6-dimethyl-cytidine, 5-fluorocytidine, uridine or thymidine) or 2'-esters of β -D-2',8-dimethyl-(guanosine, adenosine or inosine) wherein (i) the 2' ester is an amino acid ester; or (ii) the 2' ester is an alkyl or aryl ester.

Additional examples of prodrugs falling within the invention are 2',5'-L-divalene ester of β -D-2',6-dimethyl-cytidine (dival-2',6-diMe-L-dC); 2',5'-L-divalene ester of β -D-2',6-dimethyl-thymidine; 2',5'-L-divalene ester of β -D-2',8-dimethyl-adenosine; 2',5'-L-divalene ester of β -D-2',8-dimethyl-guanosine; 2',5'-L-divalene ester of β -D-2',6-dimethyl-5-fluoro-cytidine; 2',5'-L-divalene ester of β -D-2',6-dimethyl-uridine; 2',5'-diacetyl ester of β -D-2',6-dimethyl-cytidine; 2',5'-diacetyl ester of β -D-2',6-dimethyl-thymidine; 2',5'-diacetyl ester of β -D-2',8-dimethyl-adenosine; 2',5'-diacetyl ester of β -D-2',8-dimethyl-guanosine; 2',5'-diacetyl ester of β -D-2',6-dimethyl-5-fluoro-cytidine; and 2',5'-diesters of β -D-2',6-dimethyl-cytidine, 5-fluorocytidine, uridine or thymidine) or 2',5'-diesters of β -D-2',8-dimethyl-(guanosine, adenosine or inosine) wherein (i) the 2' ester is an amino acid ester and the 5'-ester is an alkyl or aryl ester; (ii) both esters are amino acid esters; (iii) both esters are independently alkyl or aryl esters; or (iv) the 2' ester is an alkyl or aryl ester and the 5'-ester is an amino acid ester.

In another embodiment, the 1', 2', 3' or 4'-branched β -D or β -L nucleoside 3'-prodrug includes biologically cleavable moieties at the 3' and/or 5' positions. Preferred moieties are natural or synthetic D or L amino acid esters, such as valyl, though preferably L-amino acids, such as L-valyl, and alkyl esters including acetyl. Therefore, this invention specifically includes 3'-L-amino acid ester and 3',5'-L-diamino acid ester of 1', 2', 3' or 4'-branched β -D or β -L nucleosides with any desired purine or pyrimidine base, wherein the parent drug optionally has an EC_{50} of less than 15 micromolar, and even more preferably less than 10 micromolar; 3'-(alkyl or aryl) ester or 3',5'-L-di(alkyl or aryl) ester of 1', 2', 3' or 4'-branched β -D or β -L nucleosides with any desired purine or pyrimidine base, wherein the parent drug optionally has an EC_{50} of less than 10 or 15 micromolar; and prodrugs of 3',5'-diesters of 1', 2', 3' or 4'-branched β -D or β -L nucleosides wherein (i) the 3' ester is a natural or synthetic D or L amino acid ester and the 5'-ester is an alkyl or aryl ester; (ii) both esters are natural or synthetic D or L-amino acid esters; (iii) both esters are independently alkyl or aryl esters; and (iv) the 3' ester is independently an alkyl or aryl ester and the 5'-ester is a natural or synthetic D or L-amino acid ester, wherein the parent drug optionally has an EC_{50} of less than 10 or 15 micromolar.

Examples of prodrugs falling within the invention are 3'-L-valine ester of β -D-2',6-dimethyl-cytidine; 3'-L-valine ester of β -D-2',6-dimethyl-thymidine; 3'-L-valine ester of β -D-2',8-dimethyl-adenosine; 3'-L-valine ester of β -D-2',8-dimethyl-guanosine; 3'-L-valine ester of β -D-2',6-dimethyl-5-fluorocytidine; 3'-L-valine ester of β -D-2',6-dimethyl-uridine; 3'-acetyl ester of β -D-2',6-dimethyl-cytidine; 3'-acetyl ester of β -D-2',6-dimethyl-thymidine; 3'-acetyl

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ester of β -D-2',8-dimethyl-adenosine; 3'-acetyl ester of β -D-2',8-dimethyl-guanosine; 3'-acetyl ester of β -D-2',6-dimethyl-5-fluoro-cytidine; and 3'-esters of β -D-2',6-dimethyl-(cytidine, 5-fluorocytidine, uridine or thymidine) or 3'-esters of β -D-2',8-dimethyl-(guanosine, adenosine or inosine) wherein (i) the 3' ester is an amino acid ester; or (ii) the 3' ester is an alkyl or aryl ester.

Additional examples of prodrugs falling within the invention are 3',5'-L-divalinal ester of β -D-2',6-dimethyl-cytidine (dival-2',6-diMe-L-dC); 3',5'-L-divalinal ester of β -D-2',6-dimethyl-thymidine; 3',5'-L-divalinal ester of β -D-2',8-dimethyl-guanosine; 3',5'-L-divalinal ester of β -D-2',6-dimethyl-5-fluoro-cytidine; 3',5'-L-divalinal ester of β -D-2',6-dimethyl-uridine; 3',5'-diacetyl ester of β -D-2',6-dimethyl-cytidine; 3',5'-diacetyl ester of β -D-2',6-dimethyl-thymidine; 3',5'-diacetyl ester of β -D-2',8-dimethyl-adenosine; 3',5'-diacetyl ester of β -D-2',8-dimethyl-guanosine; 3',5'-diacetyl ester of β -D-2',6-dimethyl-5-fluoro-cytidine; and 3',5'-diesters of β -D-2',6-dimethyl-(cytidine, 5-fluorocytidine, uridine or thymidine) or 3',5'-diesters of β -D-2',8-dimethyl-(guanosine, adenosine or inosine) wherein (i) the 3' ester is an amino acid ester and the 5'-ester is an alkyl or aryl ester; (ii) both esters are amino acid esters; (iii) both esters are independently alkyl or aryl esters; or (iv) the 3' ester is an alkyl or aryl ester and the 5'-ester is an amino acid ester.

In another embodiment, the prodrug of 1', 2', 3' or 4'-branched β -D or β -L nucleoside includes biologically cleavable moieties at the 2', 3' and/or 5' positions. Preferred moieties are natural or synthetic D or L amino acid esters, including D or L-valyl, though preferably L-amino acid esters, such as L-valyl, and alkyl esters including acetyl. Therefore, this invention specifically includes 2',3'-L or D-diamino acid ester and 2',3',5'-L or D-triamino acid ester of 1', 2', 3' or 4'-branched β -D or β -L nucleosides, preferably L-amino acid, with any desired purine or pyrimidine base, wherein the parent drug optionally has an EC_{50} of less than 15 micromolar, and even more preferably less than 10 micromolar; 2',3'-di(alkyl or aryl) ester or 2',3',5'-tri(alkyl or aryl) ester of 1', 2', 3' or 4'-branched β -D or β -L nucleosides with any desired purine or pyrimidine base, wherein the parent drug optionally has an EC_{50} of less than 10 or 15 micromolar; and prodrugs of 2',3'-diesters of 1', 2', 3' or 4'-branched β -D or β -L nucleosides wherein (i) the 2' ester is an amino acid ester and the 3'-ester is an alkyl or aryl ester; (ii) both esters are amino acid esters; (iii) both esters are independently alkyl or aryl esters; and (iv) the 2' ester is independently an alkyl or aryl ester and the 3'-ester is an amino acid ester, wherein the parent drug optionally has an EC_{50} of less than 10 or 15 micromolar. Further, 2',3',5'-triesters of 1', 2', 3' or 4'-branched β -D or β -L nucleosides wherein (i) all three esters are amino acid esters; (ii) all three esters are independently alkyl or aryl esters; (iii) the 2' ester is an amino acid ester, the 3' ester is an amino acid ester and the 5'-ester is an alkyl or aryl ester; (iv) the 2' ester is an amino acid ester, the 3' ester is an alkyl or aryl ester and the 5'-ester is an alkyl or aryl ester; (v) the 2' ester is an alkyl or aryl ester, the 3' ester is an alkyl or aryl ester and the 5'-ester is an amino acid ester; (vi) the 2' ester is an alkyl or aryl ester, the 3' ester is an amino acid ester and the 5'-ester is an amino acid ester; (vii) the 2' ester is an alkyl or aryl ester, the 3' ester is an amino acid ester and the 5'-ester is an amino acid ester; and (viii) the 2' ester is an amino acid ester, the 3' ester is an alkyl or aryl ester and the 5'-ester is an amino acid ester, wherein the parent drug optionally has an EC_{50} of less than 10 or 15 micromolar.

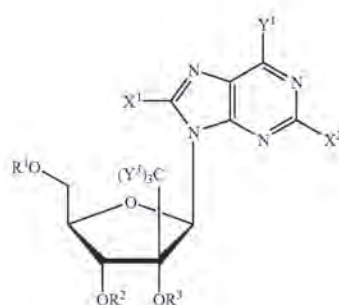
Examples of prodrugs falling within the invention include 2',3'-L-divalinal ester of β -D-2',6-dimethyl-cytidine (dival-2',6-diMe-L-dC); 2',3'-L-divalinal ester of β -D-2',6-dimethyl-thymidine; 2',3'-L-divalinal ester of β -D-2',8-dimethyl-adenosine; 2',3'-L-divalinal ester of β -D-2',8-dimethyl-

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guanosine; 2',3'-L-divalinal ester of β -D-2',6-dimethyl-5-fluoro-cytidine; 2',3'-L-divalinal ester of β -D-2',6-dimethyl-uridine; 2',3'-diacetyl ester of β -D-2',6-dimethyl-cytidine; 2',3'-diacetyl ester of β -D-2',6-dimethyl-thymidine; 2',3'-diacetyl ester of β -D-2',8-dimethyl-adenosine; 2',3'-diacetyl ester of β -D-2',8-dimethyl-guanosine; 2',3'-diacetyl ester of β -D-2',6-dimethyl-5-fluoro-cytidine; and 2',3'-diesters of β -D-2',6-dimethyl-(cytidine, 5-fluorocytidine, uridine or thymidine) or 2',3'-diesters of β -D-2',8-dimethyl-(guanosine, adenosine or inosine) wherein (i) the 2' ester is an amino acid ester and the 3'-ester is an alkyl or aryl ester; (ii) both esters are amino acid esters; (iii) both esters are independently alkyl or aryl esters; or (iv) the 2' ester is an alkyl or aryl ester and the 3'-ester is an amino acid ester.

Additional examples of prodrugs falling within the invention include 2',3',5'-L-trivalinal ester of β -D-2',6-dimethyl-cytidine (trival-2',6-diMe-L-dC); 2',3',5'-L-trivalinal ester of β -D-2',6-dimethyl-thymidine; 2',3',5'-L-trivalinal ester of β -D-2',8-dimethyl-adenosine; 2',3',5'-L-trivalinal ester of β -D-2',8-dimethyl-guanosine; 2',3',5'-L-trivalinal ester of β -D-2',6-dimethyl-5-fluoro-cytidine; 2',3',5'-L-trivalinal ester of β -D-2',6-dimethyl-uridine; 2',3',5'-triacyl ester of β -D-2',6-dimethyl-cytidine; 2',3',5'-triacyl ester of β -D-2',6-dimethyl-thymidine; 2',3',5'-triacyl ester of β -D-2',8-dimethyl-adenosine; 2',3',5'-triacyl ester of β -D-2',8-dimethyl-guanosine; 2',3',5'-triacyl ester of β -D-2',6-dimethyl-5-fluoro-cytidine; and 2',3',5'-triesters of β -D-2',6-dimethyl-(cytidine, 5-fluorocytidine, uridine or thymidine) and 2',3',5'-triesters of β -D-2',8-dimethyl-(guanosine, adenosine or inosine) wherein (i) all three esters are amino acid esters; (ii) all three esters are independently alkyl or aryl esters; (iii) the 2' ester is an amino acid ester, the 3' ester is an amino acid ester and the 5'-ester is an alkyl or aryl ester; (iv) the 2' ester is an amino acid ester, the 3' ester is an alkyl or aryl ester and the 5'-ester is an amino acid ester; (v) the 2' ester is an alkyl or aryl ester, the 3' ester is an alkyl or aryl ester and the 5'-ester is an amino acid ester; (vi) the 2' ester is an alkyl or aryl ester, the 3' ester is an amino acid ester and the 5'-ester is an amino acid ester; (vii) the 2' ester is an alkyl or aryl ester, the 3' ester is an amino acid ester and the 5'-ester is an amino acid ester; and (viii) the 2' ester is an amino acid ester, the 3' ester is an alkyl or aryl ester and the 5'-ester is an amino acid ester.

In a first principal embodiment, a compound of Formula (I) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, as well as a method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (I):



or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, wherein: R^1 , R^2 and R^3 are independently H, phosphate (including mono-, di- or triphosphate and a stabilized phosphate); straight chained, branched or cyclic alkyl (including lower alkyl); acyl (including lower acyl); CO-alkyl, CO-aryl,

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CO-alkoxyalkyl, CO-aryloxyalkyl, CO-substituted aryl, sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; alkylsulfonyl, arylsulfonyl, aralkylsulfonyl, a lipid, including a phospholipid; an amino acid; and amino acid residue, a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which is capable of providing a compound wherein R^1 , R^2 and/or R^3 is independently H or phosphate (including mono-, di- or triphosphate), for example when administered in vivo; wherein in one embodiment R^2 and/or R^3 is not phosphate (including mono-, di- or triphosphate or a stabilized phosphate pro-drug);

wherein at least one of R^2 and R^3 is not hydrogen; and wherein:

Y^1 is hydrogen, bromo, chloro, fluoro, iodo, CN, OH, OR^4 , NH_2 , NHR^4 , NR^4R^5 , SH or SR^4 ;

X^1 is a straight chained, branched or cyclic optionally substituted alkyl, CH_3 , CF_3 , $C(Y^3)_3$, 2-Br-ethyl, CH_2F , CH_2Cl , CH_2CF_3 , CF_2CF_3 , $C(Y^3)_2C(Y^3)_3$, CH_2OH , optionally substituted alkenyl, optionally substituted alkynyl, $COOH$, $COOR^4$, COO -alkyl, COO -aryl, CO -Oalkoxyalkyl, $CONH_2$, $CONHR^4$, $CON(R^4)_2$, chloro, bromo, fluoro, iodo, CN, N_3 , OH, OR^4 , NH_2 , NHR^4 , NR^4R^5 , SH or SR^4 ; and

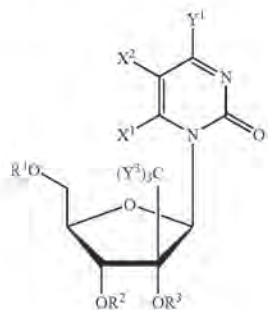
X^2 is H, straight chained, branched or cyclic optionally substituted alkyl, CH_3 , CF_3 , $C(Y^3)_3$, 2-Br-ethyl, CH_2F , CH_2Cl , CH_2CF_3 , CF_2CF_3 , $C(Y^3)_2C(Y^3)_3$, CH_2OH , optionally substituted alkenyl, optionally substituted alkynyl, $COOH$, $COOR^4$, COO -alkyl, COO -aryl, CO -Oalkoxyalkyl, $CONH_2$, $CONHR^4$, $CON(R^4)_2$, chloro, bromo, fluoro, iodo, CN, N_3 , OH, OR^4 , NH_2 , NHR^4 , NR^4R^5 , SH or SR^4 ; and

wherein each Y^3 is independently H, F, Cl, Br or I;

each R^4 and R^5 is independently hydrogen, acyl (including lower acyl), alkyl (including but not limited to methyl, ethyl, propyl and cyclopropyl), lower alkyl, alkenyl, alkynyl or cycloalkyl.

In the embodiments described herein, R^1 , R^2 and/or R^3 may be a pharmaceutically acceptable leaving group which is capable of providing a compound wherein R^1 , R^2 and/or R^3 is independently H or phosphate (including mono-, di- or triphosphate), for example when administered in vivo.

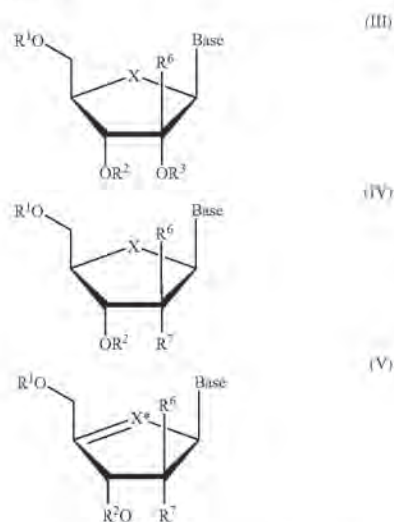
In a second principal embodiment, a compound of Formula (II) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, as well as a method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (II):



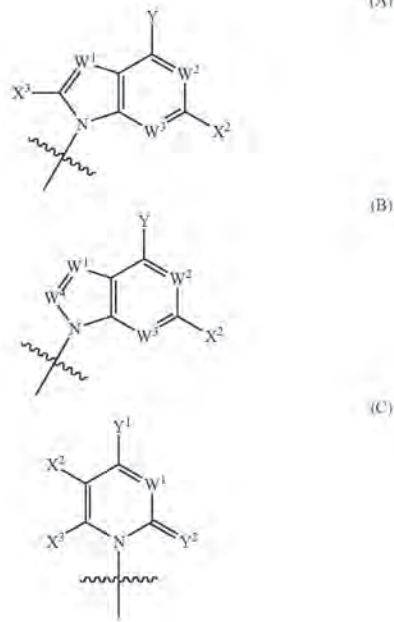
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or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, wherein: R^1 , R^2 , R^3 , R^4 , R^5 , Y^1 , Y^3 , X^1 and X^2 are as defined above.

In a third principal embodiment, a compound of Formula (III), (IV) or (V), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric, or polymorphic form thereof, is provided, as well as a method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (III), (IV) or (V):

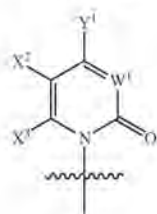
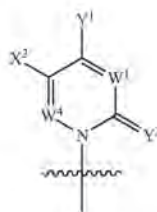
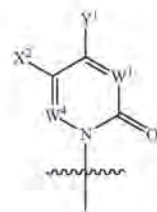
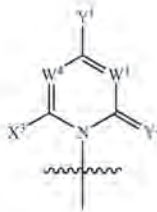
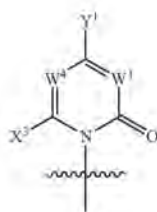
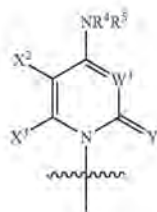


or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, wherein: Base is selected from the group consisting of



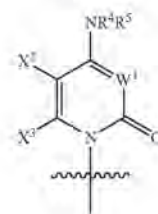
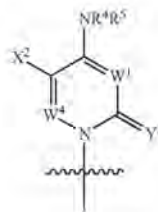
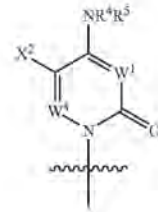
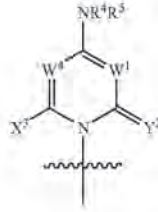
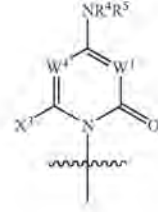
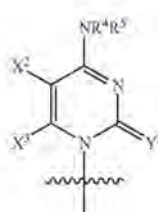
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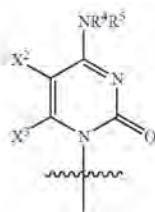
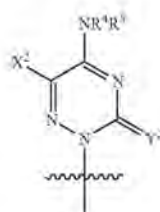
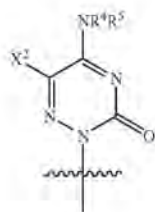
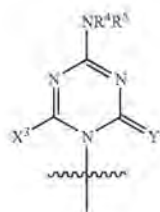
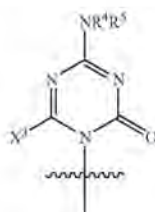
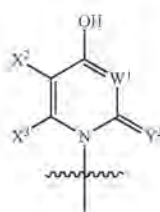
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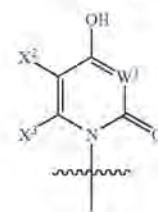
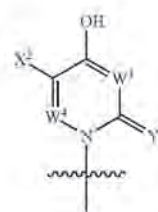
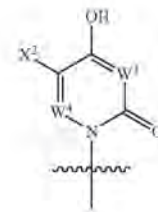
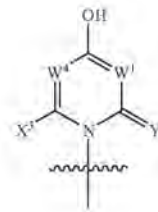
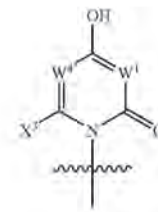
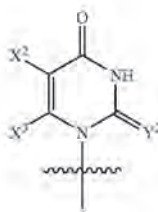
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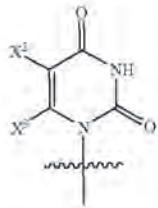
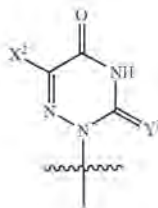
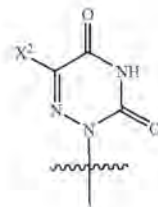
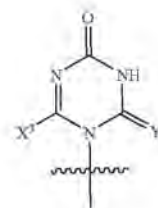
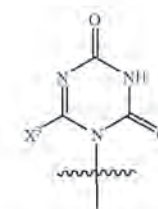
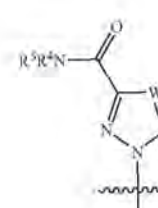
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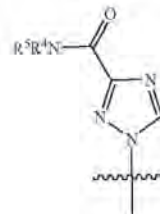
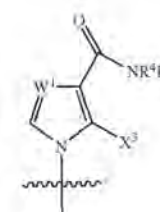
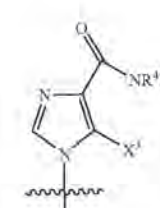
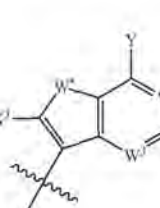
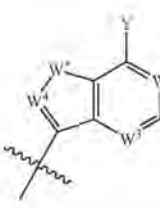
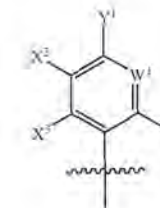
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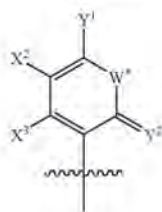
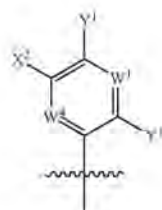
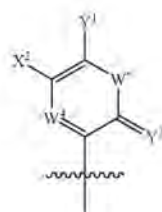
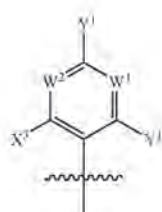
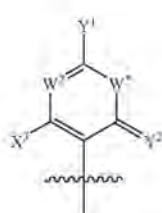
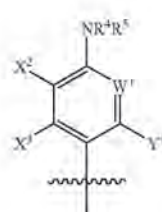
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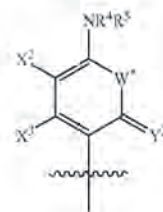
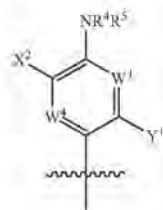
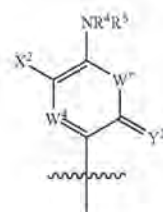
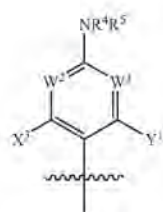
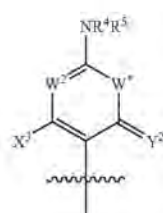
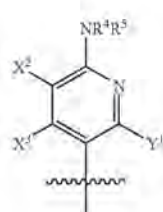
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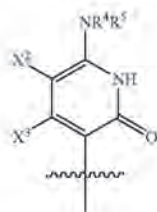
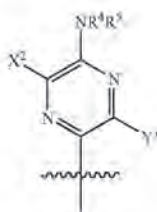
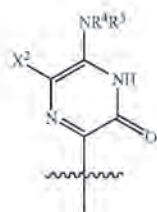
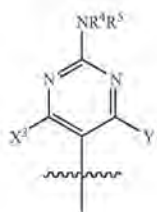
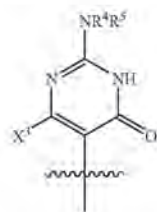
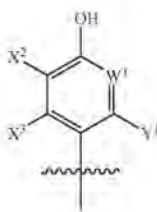
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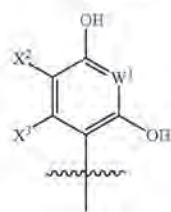
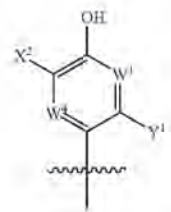
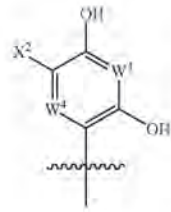
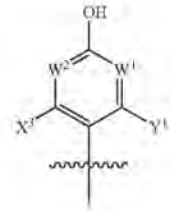
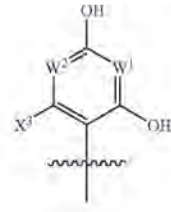
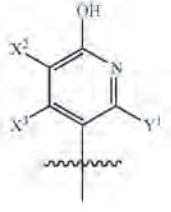
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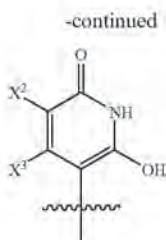
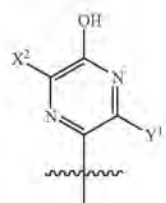
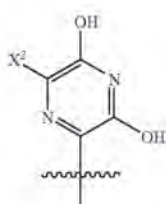
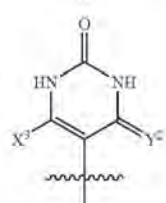
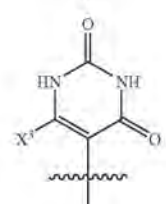


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R^1 , R^2 , R^3 , R^4 , and R^5 , are as defined above,
each W^1 , W^2 , W^3 and W^4 is independently N, CH, CF, Cl, CBr, CCl, CCN, CCH₃, CCF₃, CCH₂CH₃, CC(O)NH₂, CC(O)NHR⁴, CC(O)N(R⁴)₂, CC(O)OH, CC(O)OR⁴ or CX³;

each W^5 is independently O, S, NH or NR⁴;

X is O, S, SO₂, CH₂, CH₂OH, CHF, CF₂, C(Y³)₂, CHCN, C(CN)₂, CHR⁴ or C(R⁴)₂;

X³ is CH, CF, CY³ or CR⁴;

X² is H, straight chained, branched or cyclic optionally substituted alkyl, CH₃, CF₃, C(Y³)₃, 2-Br-ethyl, CH₂F, CH₂Cl, CH₂CF₃, CF₂CF₃, C(Y³)₂C(Y³)₃, CH₂OH, optionally substituted alkenyl, optionally substituted alkynyl, COOH, COOR⁴, COO-alkyl, COO-aryl, CO-Oalkoxyalkyl, CONH₂, CONHR⁴, CON(R⁴)₂, chloro, bromo, fluoro, iodo, CN, N₃, OH, OR⁴, NH₂, NHR⁴, NR⁴R⁵, SH or SR⁵;

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each X³ is independently a straight chained, branched or cyclic optionally substituted alkyl (including lower alkyl), CH₃, CH₂CN, CH₂N₃, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂OH, halogenated alkyl (including halogenated lower alkyl), CF₃, C(Y³)₃, 2-Br-ethyl, CH₂F, CH₂Cl, CH₂CF₃, CF₂CF₃, C(Y³)₂C(Y³)₃, optionally substituted alkenyl, haloalkenyl, Br-vinyl, optionally substituted alkynyl, haloalkynyl, N₃, CN, —C(O)OH, —C(O)OR⁴, —C(O)O(lower alkyl), —C(O)NH₂, —C(O)NHR⁴, —C(O)NH(lower alkyl), —C(O)N(R⁴)₂, —C(O)N(lower alkyl)₂, OH, OR⁴, —O(acyl), —O(lower acyl), —O(alkyl), —O(lower alkyl), —O(alkenyl), —O(alkynyl), —O(aralkyl), —O(cycloalkyl), —S(acyl), —S(lower acyl), —S(R⁴), —S(lower alkyl), —S(alkenyl), —S(alkynyl), —S(aralkyl), —S(cycloalkyl), chloro, bromo, fluoro, iodo, NH₂, —NH(lower alkyl), —NHR⁴, —NR⁴R⁵, NH(acyl), —N(lower alkyl)₂, —NH(alkenyl), —NH(alkynyl), —NH(aralkyl), —NH(cycloalkyl), —N(acyl)₂;

each Y is independently selected from the group consisting of H, optionally substituted lower alkyl, cycloalkyl, alkenyl, alkynyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃, CF₃, CF₂CF₃, CH₂CO₂R, (CH₂)_mCOOH, (CH₂)_mCOOR, (CH₂)_mCONH₂, (CH₂)_mCONR₂, and (CH₂)_mCONHR;

wherein R is H, alkyl or acyl;

Y¹ is hydrogen, bromo, chloro, fluoro, iodo, CN, OH, OR⁴, NH₂, NHR⁴, NR⁴R⁵, SH or SR⁴;

each Y² is independently O, S, NH or NR⁴;

each Y³ is independently H, F, Cl, Br or I;

wherein for Base (B), W⁴ cannot be CH if W¹, W² and W³ are N;

wherein for Base (E), (F), (K), (L), (W) and (X), W⁴ cannot be CH if W¹ is N;

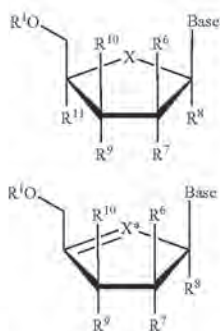
each R⁶ is independently an optionally substituted alkyl (including lower alkyl), CH₃, CH₂CN, CH₂N₃, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂OH, halogenated alkyl (including halogenated lower alkyl), CF₃, C(Y³)₃, 2-Br-ethyl, CH₂F, CH₂Cl, CH₂CF₃, CF₂CF₃, C(Y³)₂C(Y³)₃, optionally substituted alkenyl, haloalkenyl, Br-vinyl, optionally substituted alkynyl, haloalkynyl, —CH₂C(O)OH, —CH₂C(O)OR⁴, —CH₂C(O)O(lower alkyl), —CH₂C(O)NH₂, —CH₂C(O)NHR⁴, —CH₂C(O)NH(lower alkyl), —CH₂C(O)N(R⁴)₂, —CH₂C(O)N(lower alkyl)₂, —(CH₂)_mC(O)OH, —(CH₂)_mC(O)OR⁴, —(CH₂)_mC(O)O(lower alkyl), —(CH₂)_mC(O)NH₂, —(CH₂)_mC(O)NHR⁴, —(CH₂)_mC(O)NH(lower alkyl), —(CH₂)_mC(O)N(R⁴)₂, —(CH₂)_mC(O)N(lower alkyl)₂, —C(O)OH, —C(O)OR⁴, —C(O)O(lower alkyl), —C(O)NH₂, —C(O)NHR⁴, —C(O)NH(lower alkyl), —C(O)N(R⁴)₂, —C(O)N(lower alkyl)₂ or cyano;

each R⁷ is independently OH, OR², optionally substituted alkyl (including lower alkyl), CH₃, CH₂CN, CH₂N₃, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂OH, halogenated alkyl (including halogenated lower alkyl), CF₃, C(Y³)₃, 2-Br-ethyl, CH₂F, CH₂Cl, CH₂CF₃, CF₂CF₃, C(Y³)₂C(Y³)₃, optionally substituted alkenyl, haloalkenyl, Br-vinyl, optionally substituted alkynyl, haloalkynyl, optionally substituted carbocycle (preferably a 3-7 membered carbocyclic ring), optionally substituted heterocycle (preferably a 3-7 membered heterocyclic ring having one or more O, S and/or N), optionally substituted heteroaryl (preferably a 3-7 membered heteroaromatic ring having one or more O, S and/or N), —CH₂C(O)OH, —CH₂C(O)OR⁴, —CH₂C(O)O(lower alkyl), —CH₂C(O)SH, —CH₂C(O)SR⁴, —CH₂C(O)S(lower alkyl), —CH₂C(O)NH₂, —CH₂C(O)NHR⁴, —CH₂C(O)NH(lower alkyl), —CH₂C(O)N(R⁴)₂, —CH₂C(O)N(lower alkyl)₂.

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$-(CH_2)_m C(O)OH$, $-(CH_2)_m C(O)OR^4$, $-(CH_2)_m C(O)$
 $O(\text{lower alkyl})$, $-(CH_2)_m C(O)SH$, $-(CH_2)_m C(O)SR^4$,
 $-(CH_2)_m C(O)S(\text{lower alkyl})$, $-(CH_2)_m C(O)NH_2$,
 $-(CH_2)_m C(O)NHR^4$, $-(CH_2)_m C(O)NH(\text{lower alkyl})$,
 $-(CH_2)_m C(O)N(R^4)_2$, $-(CH_2)_m C(O)N(\text{lower alkyl})_2$,
 $-C(O)OH$, $-C(O)OR^4$, $-C(O)O(\text{lower alkyl})$, $-C(O)$
 SH , $-C(O)SR^4$, $-C(O)S(\text{lower alkyl})$, $-C(O)NH_2$,
 $-C(O)NHR^4$, $-C(O)NH(\text{lower alkyl})$, $-C(O)N(R^4)_2$,
 $-C(O)N(\text{lower alkyl})_2$, $-O(\text{acyl})$, $-O(\text{lower acyl})$,
 $-O(R^4)$, $-O(\text{alkyl})$, $-O(\text{lower alkyl})$, $-O(\text{alkenyl})$,
 $-O(\text{alkynyl})$, $-O(\text{aralkyl})$, $-O(\text{cycloalkyl})$, $-S(\text{acyl})$,
 $-S(\text{lower acyl})$, $-S(R^4)$, $-S(\text{lower alkyl})$, $-S(\text{alkenyl})$,
 $-S(\text{alkynyl})$, $-S(\text{aralkyl})$, $-S(\text{cycloalkyl})$, NO_2 , NH_2 ,
 $-NH(\text{lower alkyl})$, $-NHR^4$, $-NR^4R^5$, $-NH(\text{acyl})$,
 $-N(\text{lower alkyl})_2$, $-NH(\text{alkenyl})$, $-NH(\text{alkynyl})$, $-NH$
 (aralkyl) , $-NH(\text{cycloalkyl})$, $-N(\text{acyl})_2$, azido, cyano,
 SCN , OCN , NCO or halo (fluoro, chloro, bromo, iodo);
 alternatively, R^6 and R^7 can come together to form a spiro
 compound selected from the group consisting of optionally
 substituted carbocycle (preferably a 3-7 membered carbocyclic ring) or optionally substituted heterocycle (preferably a 3-7 membered heterocyclic ring having one or more O, S and/or N); and
 each m is independently 0, 1 or 2.

In a fourth principal embodiment, a compound of Formula
 (VI) or (VII), or a pharmaceutically acceptable salt or pro-
 drug, or a stereoisomeric, tautomeric or polymorphic form
 thereof, is provided, as well as a method for the treatment of
 a host infected with a Flaviviridae comprising administering
 an effective treatment amount of compound of Formula (VI)
 or (VII):



or a pharmaceutically acceptable salt or prodrug, or a stereo-
 isomeric, tautomeric or polymorphic form thereof, wherein:
 $Base$, R , R^1 , R^2 , R^3 , R^4 , R^5 , R^6 , Y , Y^1 , Y^2 , Y^3 , W^1 , W^2 , W^3 , W^4 ,
 W^5 , X , X^1 , X^2 , and
 X^3 are as defined above;

wherein, in one embodiment, R^8 in Formula (VI) is $-OH$ or
 $-NH_2$ only when X is carbon; and wherein:

each R^8 and R^{11} is independently hydrogen, an optionally
 substituted alkyl (including lower alkyl), CH_3 , CH_2CN ,
 CH_2N_3 , CH_2NH_2 , CH_2NHCH_3 , $CH_2N(CH_3)_2$, CH_2OH ,
 halogenated alkyl (including halogenated lower alkyl),
 CF_3 , $C(Y^3)_3$, 2-Br-ethyl, CH_2F , CH_2Cl , CH_2CF_3 , CF_2CF_3 ,
 $C(Y^3)_2C(Y^3)_3$, optionally substituted alkenyl, haloalkenyl,
 Br-vinyl, optionally substituted alkynyl, haloalkynyl,
 $-CH_2C(O)OH$, $-CH_2C(O)OR^4$, $-CH_2C(O)O(\text{lower}$
 $alkyl)$, $-CH_2C(O)NH_2$, $-CH_2C(O)NHR^4$, $-CH_2C(O)$
 $NH(\text{lower alkyl})$, $-CH_2C(O)N(R^4)_2$, $-CH_2C(O)N$

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$(\text{lower alkyl})_2$, $-(CH_2)_m C(O)OH$, $-(CH_2)_m C(O)OR^4$,
 $-(CH_2)_m C(O)O(\text{lower alkyl})$, $-(CH_2)_m C(O)NH_2$,
 $-(CH_2)_m C(O)NHR^4$, $-(CH_2)_m C(O)NH(\text{lower alkyl})$,
 $-(CH_2)_m C(O)N(R^4)_2$, $-(CH_2)_m C(O)N(\text{lower alkyl})_2$,
 $-C(O)OH$, $-C(O)OR^4$, $-C(O)O(\text{lower alkyl})$, $-C(O)$
 NH_2 , $-C(O)NHR^4$, $-C(O)NH(\text{lower alkyl})$, $-C(O)N$
 $(R^4)_2$, $-C(O)N(\text{lower alkyl})_2$, cyano, NH-acyl or
 $N(\text{acyl})_2$;

each R^9 and R^{10} are independently hydrogen, OH , OR^2 ,
 optionally substituted alkyl (including lower alkyl), CH_3 ,
 CH_2CN , CH_2N_3 , CH_2NH_2 , CH_2NHCH_3 , $CH_2N(CH_3)_2$,
 CH_2OH , halogenated alkyl (including halogenated lower
 alkyl), CF_3 , $C(Y^3)_3$, 2-Br-ethyl, CH_2F , CH_2Cl , CH_2CF_3 ,
 CF_2CF_3 , $C(Y^3)_2C(Y^3)_3$, optionally substituted alkenyl,
 haloalkenyl, Br-vinyl, optionally substituted alkynyl,
 haloalkynyl, optionally substituted carbocycle (preferably
 a 3-7 membered carbocyclic ring), optionally substituted
 heterocycle (preferably a 3-7 membered heterocyclic ring
 having one or more O, S and/or N), optionally substituted
 heteroaryl (preferably a 3-7 membered heteroaromatic ring
 having one or more O, S and/or N), $-CH_2C(O)OH$,
 $-CH_2C(O)OR^4$, $-CH_2C(O)O(\text{lower alkyl})$, $-CH_2C(O)$
 SH , $-CH_2C(O)SR^4$, $-CH_2C(O)S(\text{lower alkyl})$, $-CH_2C$
 $(O)NH_2$, $-CH_2C(O)NHR^4$, $-CH_2C(O)NH(\text{lower alkyl})$,
 $-CH_2C(O)N(R^4)_2$, $-CH_2C(O)N(\text{lower alkyl})_2$,
 $-(CH_2)_m C(O)OH$, $-(CH_2)_m C(O)OR^4$, $-(CH_2)_m C(O)$
 $O(\text{lower alkyl})$, $-(CH_2)_m C(O)SH$, $-(CH_2)_m C(O)SR^4$,
 $-(CH_2)_m C(O)S(\text{lower alkyl})$, $-(CH_2)_m C(O)NH_2$,
 $-(CH_2)_m C(O)NHR^4$, $-(CH_2)_m C(O)NH(\text{lower alkyl})$,
 $-(CH_2)_m C(O)N(R^4)_2$, $-(CH_2)_m C(O)N(\text{lower alkyl})_2$,
 $-C(O)OH$, $-C(O)OR^4$, $-C(O)O(\text{lower alkyl})$, $-C(O)$
 SH , $-C(O)SR^4$, $-C(O)S(\text{lower alkyl})$, $-C(O)NH_2$,
 $-C(O)NHR^4$, $-C(O)NH(\text{lower alkyl})$, $-C(O)N(R^4)_2$,
 $-C(O)N(\text{lower alkyl})_2$, $-O(\text{acyl})$, $-O(\text{lower acyl})$,
 $-O(R^4)$, $-O(\text{alkyl})$, $-O(\text{lower alkyl})$, $-O(\text{alkenyl})$,
 $-O(\text{alkynyl})$, $-O(\text{aralkyl})$, $-O(\text{cycloalkyl})$, $-S(\text{acyl})$,
 $-S(\text{lower acyl})$, $-S(R^4)$, $-S(\text{lower alkyl})$, $-S(\text{alkenyl})$,
 $-S(\text{alkynyl})$, $-S(\text{aralkyl})$, $-S(\text{cycloalkyl})$, NO_2 , NH_2 ,
 $-NH(\text{lower alkyl})$, $-NHR^4$, $-NR^4R^5$, $-NH(\text{acyl})$,
 $-N(\text{lower alkyl})_2$, $-NH(\text{alkenyl})$, $-NH(\text{alkynyl})$, $-NH$
 (aralkyl) , $-NH(\text{cycloalkyl})$, $-N(\text{acyl})_2$, azido, cyano,
 SCN , OCN , NCO or halo (fluoro, chloro, bromo, iodo);

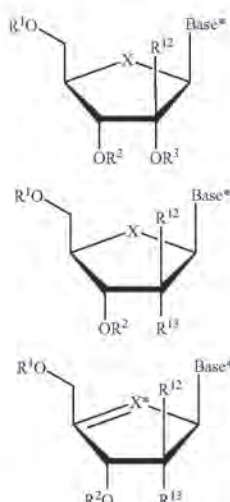
each m is independently 0, 1 or 2; and

alternatively, R^6 and R^{10} , R^7 and R^9 , R^8 and R^7 or R^9 and R^{11}
 can come together to form a bridged compound selected
 from the group consisting of optionally substituted carbocycle
 (preferably a 3-7 membered carbocyclic ring) or optionally substituted heterocycle (preferably a 3-7 membered heterocyclic ring having one or more O, S and/or N); or

alternatively, R^6 and R^7 or R^9 and R^{10} can come together to
 form a spiro compound selected from the group consisting
 of optionally substituted carbocycle (preferably a 3-7
 membered carbocyclic ring) or optionally substituted heterocycle (preferably a 3-7 membered heterocyclic ring having one or more O, S and/or N).

In a fifth principal embodiment, a compound of Formula
 (VIII), (IX) or (X), or a pharmaceutically acceptable salt or
 prodrug, or a stereoisomeric, tautomeric or polymorphic form
 thereof, is provided, as well as a method for the treatment of
 a host infected with a Flaviviridae comprising administering
 an effective treatment amount of compound of Formula
 (VIII), (IX) or (X):

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or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, wherein: R^1 , R^2 , R^3 , R^4 , R^5 , X , Y^3 , and X^* are as defined above;

Base* is a purine or pyrimidine base as defined herein;

each R^{12} is independently a substituted alkyl (including lower alkyl), CH_2CN , CH_2N_3 , CH_2NH_2 , CH_2NHCH_3 , $CH_2N(CH_3)_2$, CH_2OH , halogenated alkyl (including halogenated lower alkyl), CF_3 , $C(Y^3)_3$, 2-Br-ethyl, CH_2F , CH_2Cl , CH_2CF_3 , CF_2CF_3 , $C(Y^3)_2C(Y^3)_3$, substituted alkenyl, haloalkenyl (but not Br-vinyl), substituted alkynyl, haloalkynyl, $-CH_2C(O)OH$, $-CH_2C(O)OR^4$, $-CH_2C(O)O(lower\ alkyl)$, $-CH_2C(O)NH_2$, $-CH_2C(O)NHR^4$, $-CH_2C(O)NH(lower\ alkyl)$, $-CH_2C(O)N(R^4)_2$, $-CH_2C(O)N(lower\ alkyl)_2$, $-(CH_2)_mC(O)OH$, $-(CH_2)_mC(O)OR^4$, $-(CH_2)_mC(O)O(lower\ alkyl)$, $-(CH_2)_mC(O)NH_2$, $-(CH_2)_mC(O)NHR^4$, $-(CH_2)_mC(O)NH(lower\ alkyl)$, $-(CH_2)_mC(O)N(R^4)_2$, $-(CH_2)_mC(O)N(lower\ alkyl)_2$, $-C(O)OH$, $-C(O)OR^4$, $-C(O)NH_2$, $-C(O)NHR^4$, $-C(O)NH(lower\ alkyl)$, $-C(O)N(R^4)_2$, $-C(O)N(lower\ alkyl)_2$;

each R^{13} is independently substituted alkyl (including lower alkyl), CH_2CN , CH_2N_3 , CH_2NH_2 , CH_2NHCH_3 , $CH_2N(CH_3)_2$, CH_2OH , halogenated alkyl (including halogenated lower alkyl), CF_3 , $C(Y^3)_3$, 2-Br-ethyl, CH_2F , CH_2Cl , CH_2CF_3 , CF_2CF_3 , $C(Y^3)_2C(Y^3)_3$, substituted alkenyl, haloalkenyl (but not Br-vinyl), substituted alkynyl, haloalkynyl, optionally substituted carbocycle (preferably a 3-7 membered carbocyclic ring), optionally substituted heterocycle (preferably a 3-7 membered heterocyclic ring having one or more O, S and/or N), optionally substituted heteroaryl (preferably a 3-7 membered heteroaromatic ring having one or more O, S and/or N), $-CH_2C(O)OH$, $-CH_2C(O)OR^4$, $-CH_2C(O)O(lower\ alkyl)$, $-CH_2C(O)SH$, $-CH_2C(O)SR^4$, $-CH_2C(O)S(lower\ alkyl)$, $-CH_2C(O)NH_2$, $-CH_2C(O)NHR^4$, $-CH_2C(O)NH(lower\ alkyl)$, $-CH_2C(O)N(R^4)_2$, $-CH_2C(O)N(lower\ alkyl)_2$, $-(CH_2)_mC(O)OH$, $-(CH_2)_mC(O)OR^4$, $-(CH_2)_mC(O)O(lower\ alkyl)$, $-(CH_2)_mC(O)SH$, $-(CH_2)_mC(O)SR^4$, $-(CH_2)_mC(O)S(lower\ alkyl)$, $-(CH_2)_mC(O)NH_2$, $-(CH_2)_mC(O)NHR^4$, $-(CH_2)_mC(O)NH(lower\ alkyl)$, $-(CH_2)_mC(O)N(R^4)_2$, $-(CH_2)_mC(O)N(lower\ alkyl)_2$, $-C(O)OH$, $-C(O)OR^4$, $-C(O)SH$, $-C(O)SR^4$, $-C(O)S(lower\ alkyl)$, $-C(O)NH_2$, $-C(O)NHR^4$, $-C(O)NH$

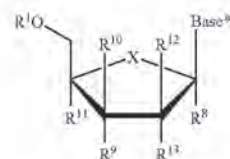
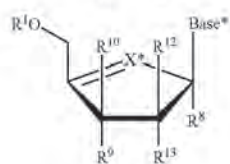
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(lower alkyl), $-C(O)N(R^4)_2$, $-C(O)N(lower\ alkyl)_2$, $-O(R^4)$, $-O(alkynyl)$, $-O(aralkyl)$, $-O(cycloalkyl)$, $-S(acyl)$, $-S(lower\ acyl)$, $-S(R^4)$, $-S(lower\ alkyl)$, $-S(alkenyl)$, $-S(alkynyl)$, $-S(aralkyl)$, $-S(cycloalkyl)$, $-NHR^4$, $-NR^4R^5$, $-NH(alkenyl)$, $-NH(alkynyl)$, $-NH(aralkyl)$, $-NH(cycloalkyl)$, SCN , OCN , NCO or fluoro;

alternatively, R^{12} and R^{13} can come together to form a spiro compound selected from the group consisting of optionally substituted carbocycle (preferably a 3-7 membered carbocyclic ring) or optionally substituted heterocycle (preferably a 3-7 membered heterocyclic ring having one or more O, S and/or N); and

each m is independently 0, 1 or 2.

In a sixth principal embodiment, a compound of Formula (XI) or (XII), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, as well as a method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (XI) or (XII);



or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, wherein: alternatively, Base*, is replaced with Base in Formulas (XI) and (XII); and

Base, Base*, R , R^1 , R^2 , R^3 , R^4 , R^5 , R^{12} , R^{13} , Y , Y^1 , Y^2 , Y^3 , W^* , W^1 , W^2 , W^3 , W^4 , X , X^* , X^1 , X^2 , and X^3 are as defined above;

wherein, in one embodiment, R^8 in Formula (XI) is $-OH$ or $-NH_2$ only when X is carbon; and

wherein;

each R^8 and R^{11} is independently hydrogen, an optionally substituted alkyl (including lower alkyl), CH_3 , CH_2CN , CH_2N_3 , CH_2NH_2 , CH_2NHCH_3 , $CH_2N(CH_3)_2$, CH_2OH , halogenated alkyl (including halogenated lower alkyl), CF_3 , $C(Y^3)_3$, 2-Br-ethyl, CH_2F , CH_2Cl , CH_2CF_3 , CF_2CF_3 , $C(Y^3)_2C(Y^3)_3$, optionally substituted alkenyl, haloalkenyl, Br-vinyl, optionally substituted alkynyl, haloalkynyl, $-CH_2C(O)OH$, $-CH_2C(O)OR^4$, $-CH_2C(O)O(lower\ alkyl)$, $-CH_2C(O)NH_2$, $-CH_2C(O)NHR^4$, $-CH_2C(O)NH(lower\ alkyl)$, $-CH_2C(O)N(R^4)_2$, $-CH_2C(O)N(lower\ alkyl)_2$, $-(CH_2)_mC(O)OH$, $-(CH_2)_mC(O)OR^4$, $-(CH_2)_mC(O)O(lower\ alkyl)$, $-(CH_2)_mC(O)NH_2$, $-(CH_2)_mC(O)NHR^4$, $-(CH_2)_mC(O)NH(lower\ alkyl)$, $-(CH_2)_mC(O)N(R^4)_2$, $-(CH_2)_mC(O)N(lower\ alkyl)_2$, $-C(O)OH$, $-C(O)OR^4$, $-C(O)O(lower\ alkyl)$, $-C(O)NH_2$, $-C(O)NHR^4$, $-C(O)NH(lower\ alkyl)$, $-C(O)N(R^4)_2$, $-C(O)N(lower\ alkyl)_2$, cyano, NH-acyl or N(acyl);

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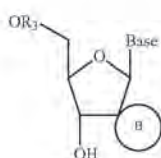
each R^9 and R^{10} are independently hydrogen, OH, OR^2 , optionally substituted alkyl (including lower alkyl), CH_3 , CH_2CN , CH_2N_3 , CH_2NH_2 , CH_2NHCH_3 , $CH_2N(CH_3)_2$, CH_2OH , halogenated alkyl (including halogenated lower alkyl), CF_3 , $C(Y^3)_3$, 2-Br-ethyl, CH_2F , CH_2Cl , CH_2CF_3 , CF_2CF_3 , $C(Y^3)_2C(Y^3)_3$, optionally substituted alkenyl, haloalkenyl, Br-vinyl, optionally substituted alkynyl, haloalkynyl, optionally substituted carbocycle (preferably a 3-7 membered carbocyclic ring), optionally substituted heterocycle (preferably a 3-7 membered heterocyclic ring having one or more O, S and/or N), optionally substituted heteroaryl (preferably a 3-7 membered heteroaromatic ring having one or more O, S and/or N), $-CH_2C(O)OH$, $-CH_2C(O)OR^4$, $-CH_2C(O)O(\text{lower alkyl})$, $-CH_2C(O)SH$, $-CH_2C(O)SR^4$, $-CH_2C(O)S(\text{lower alkyl})$, $-CH_2C(O)NH_2$, $-CH_2C(O)NHR^4$, $-CH_2C(O)NH(\text{lower alkyl})$, $-CH_2C(O)N(R^4)_2$, $-CH_2C(O)N(\text{lower alkyl})_2$, $-(CH_2)_mC(O)OH$, $-(CH_2)_mC(O)OR^4$, $-(CH_2)_mC(O)O(\text{lower alkyl})$, $-(CH_2)_mC(O)SH$, $-(CH_2)_mC(O)SR^4$, $-(CH_2)_mC(O)S(\text{lower alkyl})$, $-(CH_2)_mC(O)NH_2$, $-(CH_2)_mC(O)NHR^4$, $-(CH_2)_mC(O)NH(\text{lower alkyl})$, $-(CH_2)_mC(O)N(R^4)_2$, $-(CH_2)_mC(O)N(\text{lower alkyl})_2$, $-C(O)OH$, $-C(O)OR^4$, $-C(O)O(\text{lower alkyl})$, $-C(O)SH$, $-C(O)SR^4$, $-C(O)S(\text{lower alkyl})$, $-C(O)NH_2$, $-C(O)NHR^4$, $-C(O)NH(\text{lower alkyl})$, $-C(O)N(R^4)_2$, $-C(O)N(\text{lower alkyl})_2$, $-O(\text{acyl})$, $-O(\text{lower acyl})$, $-O(R^4)$, $-O(\text{alkyl})$, $-O(\text{lower alkyl})$, $-O(\text{alkenyl})$, $-O(\text{alkynyl})$, $-O(\text{aralkyl})$, $-O(\text{cycloalkyl})$, $-S(\text{acyl})$, $-S(\text{lower acyl})$, $-S(R^4)$, $-S(\text{lower alkyl})$, $-S(\text{alkenyl})$, $-S(\text{alkynyl})$, $-S(\text{aralkyl})$, $-S(\text{cycloalkyl})$, NO_2 , NH_2 , $-NH(\text{lower alkyl})$, $-NHR^4$, $-NR^4R^5$, $-NH(\text{acyl})$, $-N(\text{lower alkyl})_2$, $-NH(\text{alkenyl})$, $-NH(\text{alkynyl})$, $-NH(\text{aralkyl})$, $-NH(\text{cycloalkyl})$, $-N(\text{acyl})_2$, azido, cyano, SCN, OCN, NCO or halo (fluoro, chloro, bromo, iodo);

each m is independently 0, 1 or 2; and

alternatively, R^8 and R^{13} , R^9 and R^{13} , R^9 and R^{11} or R^{11} and R^{12} can come together to form a bridged compound selected from the group consisting of optionally substituted carbocycle (preferably a 3-7 membered carbocyclic ring) or optionally substituted heterocycle (preferably a 3-7 membered heterocyclic ring having one or more O, S and/or N); or

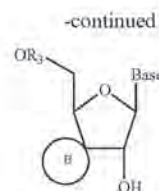
alternatively, R^{12} and R^{13} or R^9 and R^{11} can come together to form a spiro compound selected from the group consisting of optionally substituted carbocycle (preferably a 3-7 membered carbocyclic ring) or optionally substituted heterocycle (preferably a 3-7 membered heterocyclic ring having one or more O, S and/or N).

In a particular aspect of the invention, a compound of Formula (XI) or (XII), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, as well as a method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (XI) or (XII):



(XIII)

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(XIV)

or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, wherein:

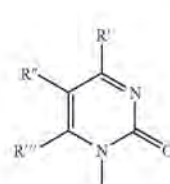
R_3 is selected from the group consisting of H; mono-, di-, and tri-phosphate or a stabilized phosphate prodrug; acyl; a sulfonate ester; optionally substituted alkyl sulfonyl; optionally substituted arylsulfonyl; a lipid; an amino acid; a carbohydrate; a peptide; cholesterol; and a pharmaceutically acceptable leaving group which when administered in vivo is capable of providing a compound wherein R_3 is independently H, or mono-, di- or triphosphate;

X^n is selected from the group consisting of one or more O, S, SO, SO_2 , N, NH, NR and CH_2 wherein any of the aforementioned may be optionally substituted and may be variably positioned so as to form a 3-7 membered ring;

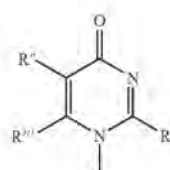
R is H, alkyl or acyl; and

B indicates a spiro compound selected from the group consisting of optionally substituted carbocycle (preferably a 3-7 membered carbocyclic ring) or optionally substituted heterocycle (preferably a 3-7 membered heterocyclic ring having one or more O, S and/or N);

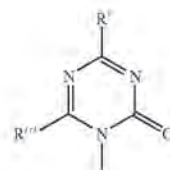
Base is selected from the group consisting of:



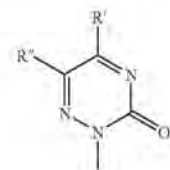
(a)



(b)



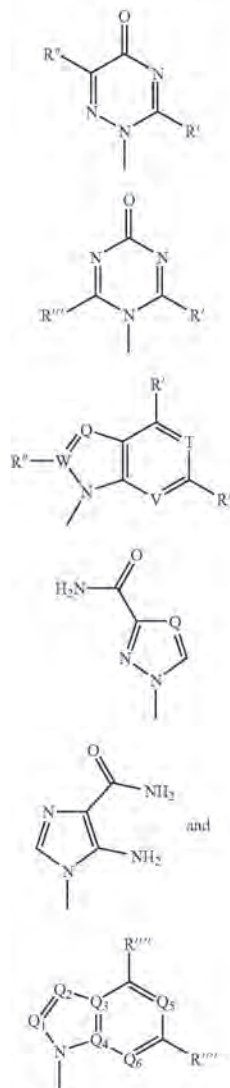
(c)



(d)

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-continued



wherein:

each R', R'', R''' and R'''' are independently selected from the group consisting of H, OH, substituted or unsubstituted alkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted alkynyl, cycloalkyl, Br-vinyl, —O-alkyl, O-alkenyl, O-alkynyl, O-aryl, O-aralkyl, —O-acyl, O-cycloalkyl, NH₂, NH-alkyl, N-dialkyl, NH-acyl, N-aryl, N-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-acyl, S-aryl, S-cycloalkyl, S-aralkyl, F, Cl, Br, I, CN, COOH, CONH₂, CO₂-alkyl, CONH₂-alkyl, CON-dialkyl, OH, CF₃, CH₂OH, (CH₂)_nOH, (CH₂)_nNH₂, (CH₂)_nCOOH, (CH₂)_nCN, (CH₂)_mNO₂ and (CH₂)_mCONH₂;

m is 0 or 1;

W is C—R'' or N;

T and V independently are CH or N;

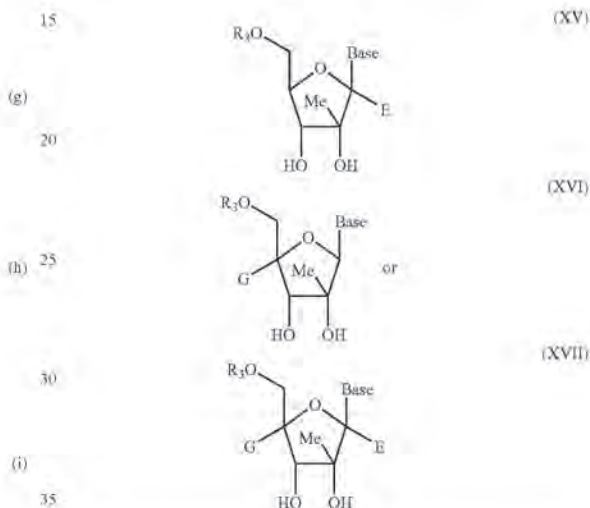
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Q is CH, —CCl, —CBr, —CF, —Cl, —CCN, —C—COOH, —C—CONH₂, or N;

(e) Q₁ and Q₂ independently are N or C—R;

Q₃, Q₄, Q₅ and Q₆ independently are N or CH; and tautomeric forms thereof.

In a second particular aspect of the invention, a compound of Formula (XV), (XVI) or (XVII), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, as well as a method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (XV), (XVI) or (XVII):



or its pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, wherein: G and E independently are selected from the group consisting of CH₃, CH₂OH, CH₂F, CH₂N₃, CH₂CN, (CH₂)_mCOOH, (CH₂)_mCOOR, (CH₂)_mCONH₂, (CH₂)_mCONR₂, (CH₂)_mCONHR and N-acyl;

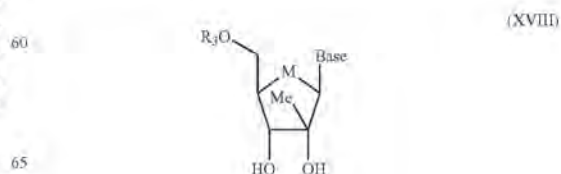
m is 0 or 1;

R is H, alkyl or acyl; and

R', R'', R''', R'''' and R³ and Base are as defined for Formula (XIII).

Alternatively, for compound of Formula (XVII), at most one of G and E can further be hydrogen.

In a third particular aspect of the invention, a compound of Formula (XVIII) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, as well as a method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (XVIII):

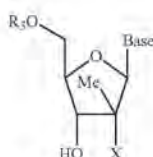


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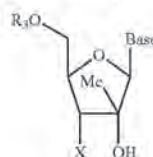
or its pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, wherein M is selected from the group consisting of S, SO, and SO₂; and

R', R'', R''', R''', and R₃ and Base are as defined for Formula (XIII).

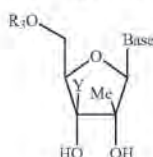
In a fourth particular aspect of the invention, a compound of Formula (XIX), (XX), (XXI) (XXII) or (XXIII) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, as well as a method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (XIX), (XX), (XXI) (XXII) or (XXIII):



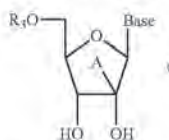
(XIX)



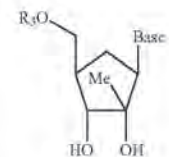
(XX)



(XXI)



(XXII)



(XXIII)

or its pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof wherein:

A is selected from the group consisting of optionally substituted lower alkyl, cycloalkyl, alkenyl, alkynyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃, CF₃, CF₂CF₃, CH₂CO₂R, (CH₂)_mCOOH, (CH₂)_mCOOR, (CH₂)_mCO—NH₂, (CH₂)_mCONR₂, and (CH₂)_mCONHR;

Y is selected from the group consisting of H, optionally substituted lower alkyl, cycloalkyl, alkenyl, alkynyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃, CF₃, CF₂CF₃, CH₂CO₂R, (CH₂)_mCOOH, (CH₂)_mCOOR, (CH₂)_mCONH₂, (CH₂)_mCONR₂, and (CH₂)_mCONHR;

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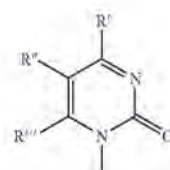
X is selected from the group consisting of —OH, optionally substituted alkyl, cycloalkyl, alkenyl, alkynyl, —O-alkyl, —O-alkenyl, —O-alkynyl, —O-aryl, —O-aralkyl, —O-cycloalkyl, —O-acyl, F, Cl, Br, I, CN, NC, SCN, OCN, NCO, NO₂, NH₂, N₃, NH-acyl, NH-alkyl, N-dialkyl, NH-alkenyl, NH-alkynyl, NH-aryl, NH-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-alkenyl, S-alkynyl, S-aryl, S-aralkyl, S-acyl, S-cycloalkyl, CO₂-alkyl, CONH-alkyl, CON-dialkyl, CONH-alkenyl, CONH-alkynyl, CONH-aralkyl, CONH-cycloalkyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃, CF₃, CF₂CF₃, CH₂CO₂R, (CH₂)_mCOOH, (CH₂)_mCOOR, (CH₂)_mCONH₂, (CH₂)_mCONR₂, (CH₂)_mCONHR, an optionally substituted 3-7 membered carbocyclic, and an optionally substituted 3-7 membered heterocyclic ring having O, S and/or N independently as a heteroatom taken alone or in combination;

m is 0 or 1;

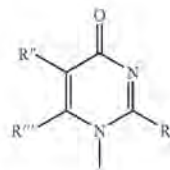
R is H, alkyl or acyl;

R₃ is selected from the group consisting of H; mono-, di-, and tri-phosphate or a stabilized phosphate prodrug; substituted or unsubstituted alkyl; acyl; a sulfonate ester; optionally substituted alkyl sulfonyl; optionally substituted aryl-sulfonyl; a lipid; an amino acid; a carbohydrate; a peptide; cholesterol; and a pharmaceutically acceptable leaving group which when administered in vivo is capable of providing a compound wherein R₃ is independently H, or mono-, di- or triphosphate; and

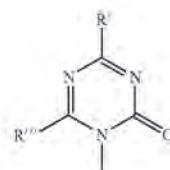
Base is a non-natural base selected from the group of:



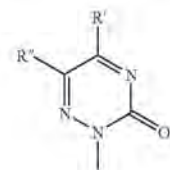
(a)



(b)

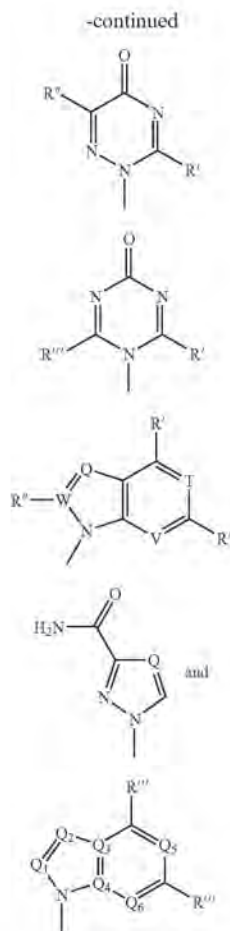


(c)



(d)

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or (i) herein below

wherein:

each R', R'', R''' and R'''' is independently selected from the group consisting of H, OH, substituted or unsubstituted alkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted alkynyl, cycloalkyl, Br-vinyl, —O-alkyl, O-alkenyl, O-alkynyl, O-aryl, O-aralkyl, —O-acyl, O-cycloalkyl, NH₂, NH-alkyl, N-dialkyl, NH-acyl, N-aryl, N-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-acyl, S-aryl, S-cycloalkyl, S-aralkyl, F, Cl, Br, I, CN, COOH, CONH₂, CO₂-alkyl, CONH-alkyl, CON-dialkyl, OH, CF₃, CH₂OH, (CH₂)_mOH, (CH₂)_mNH₂, (CH₂)_mCOOH, (CH₂)_nCN, (CH₂)_mNO₂ and (CH₂)_mCONH₂;

m is 0 or 1;

W is C—R'' or N;

T and V independently are CH or N;

Q is CH, —CCl, —CBr, —CF, —Cl, —CCN, —C—COOH, —C—CONH₂, or N;

Q₁ and Q₂ independently are N or C—R''''; andQ₃, Q₄, Q₅ and Q₆ independently are N or CH;

with the proviso that in bases (g) and (i), R', R''' are not H, OH, or NH₂; and Q, T, V, Q₂, Q₅ and Q₆ are not N.

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In one embodiment, the amino acid residue is of the formula C(O)C(R¹¹)(R¹²)(NR¹³R¹⁴), wherein:

- (e) R¹¹ is the side chain of an amino acid and wherein, as in proline, R¹¹ can optionally be attached to R¹³ to form a ring structure; or alternatively, R¹¹ is an alkyl, aryl, heteroaryl or heterocyclic moiety;

R¹² is hydrogen, alkyl (including lower alkyl) or aryl; and

- (f) R¹³ and R¹⁴ are independently hydrogen, acyl (including an acyl derivative attached to R¹¹) or alkyl (including but not limited to methyl, ethyl, propyl, and cyclopropyl).

In another preferred embodiment, at least one of R² and R³ is an amino acid residue, and is preferably L-valinyl.

- (g) The β-D- and β-L-nucleosides of this invention may inhibit Flaviviridae polymerase activity. Nucleosides can be screened for their ability to inhibit Flaviviridae polymerase activity in vitro according to screening methods set forth more particularly herein. One can readily determine the spectrum of activity by evaluating the compound in the assays described herein or with another confirmatory assay.

- (h) In one embodiment the efficacy of the anti-Flaviviridae compound is measured according to the concentration of compound necessary to reduce the plaque number of the virus in vitro, according to methods set forth more particularly herein, by 50% (i.e. the compound's EC₅₀). In preferred embodiments the parent of the prodrug compound exhibits an EC₅₀ of less than 25, 15, 10, 5, or 1 micromolar. In preferred embodiments the compound exhibits an EC₅₀ of less than 15 or 10 micromolar, when measured according to the polymerase assay described in Ferrari et al., *Jnl. of Vir.* 73:1649-1654, 1999; Ishii et al., *Hepatology*, 29:1227-1235, 1999; Lohmann et al., *Jnl. of Bio. Chem.*, 274:10807-10815, 1999; or Yamashita et al., *Jnl. of Bio. Chem.*, 273:15479-15486, 1998.

- (i) In another embodiment, combination and/or alternation therapy are provided. In combination therapy, an effective dosage of two or more agents are administered together, whereas during alternation therapy an effective dosage of each agent is administered serially. The dosages will depend on absorption, inactivation, and excretion rates of the drug as well as other factors known to those of skill in the art. It is to be noted that dosage values will also vary with the severity of the condition to be alleviated. It is to be further understood that for any particular subject, specific dosage regimens and schedules should be adjusted over time according to the individual need and the professional judgment of the person administering or supervising the administration of the compositions.

- The invention provides combinations of at least two of the herein described prodrugs. The invention further provides at least one of the described 2' and 3'-prodrugs in combination or alternation with a second nucleoside that exhibits activity against a Flaviviridae, including but not limited to a parent drug of any of the prodrugs defined herein, i.e. β-D-2',6-dimethyl-cytidine, β-D-2',6-dimethyl-thymidine, β-D-2',8-dimethyl-adenosine, β-D-2',8-dimethyl-guanosine, β-D-2',6-dimethyl-5-fluorocytidine and/or β-D-2',6-dimethyl-uridine. Alternatively, the 2' or 3'-prodrugs can be administered in combination or alternation with other anti-Flaviviridae agent exhibits an EC₅₀ of less than 10 or 15 micromolar, or their prodrugs or pharmaceutically acceptable salts.

- Nonlimiting examples of antiviral agents that can be used in combination with the compounds disclosed herein include: 1) an interferon and/or ribavirin; (2) Substrate-based NS3 protease inhibitors; (3) Non-substrate-based inhibitors; (4) Thiazolidine derivatives; (5) Thiazolidines and benzanilides;

(6) A phenanthrenequinone; (7) NS3 inhibitors; (8) HCV helicase inhibitors; (9) polymerase inhibitors, including RNA-dependent RNA-polymerase inhibitors; (10) Antisense oligodeoxynucleotides; (11) Inhibitors of IRES-dependent translation; (12) Nuclease-resistant ribozymes; and (13) other compounds that exhibit activity against a flaviviridae. The invention further includes administering the prodrug in combination or alternation with an immune modulator or other pharmaceutically active modifier of viral replication, including a biological material such as a protein, peptide, oligonucleotide, or gamma globulin, including but not limited to interferon, interleukin, or an antisense oligonucleotides to genes which express or regulate Flaviviridae replication.

The invention further includes administering the prodrug in combination or alternation with an immune modulator or other pharmaceutically active modifier of viral replication, including a biological material such as a protein, peptide, oligonucleotide, or gamma globulin, including but not limited to interferon, interleukin, or an antisense oligonucleotides to genes which express or regulate Flaviviridae replication.

In particular, the present invention provides the following:

- (a) a compound of Formula (XIII)-(XXIII), or its pharmaceutically acceptable salt or prodrug thereof;
- (b) pharmaceutical compositions comprising a compound of Formula (XIII)-(XXIII), or its pharmaceutically acceptable salt or prodrug thereof, together with a pharmaceutically acceptable carrier or diluent;
- (c) pharmaceutical compositions comprising a compound of Formula (XIII)-(XXIII), or its pharmaceutically acceptable salt or prodrug thereof, with one or more other effective antiviral agent, optionally with a pharmaceutically acceptable carrier or diluent;
- (d) pharmaceutical compositions for the treatment of a Flaviviridae infection in a host comprising a compound of Formula (I)-(XXIII), or its pharmaceutically acceptable salt or prodrug thereof, together with a pharmaceutically acceptable carrier or diluent;
- (e) pharmaceutical compositions for the treatment of a Flaviviridae infection in a host comprising a compound of Formula (I)-(XXIII), or its pharmaceutically acceptable salt or prodrug thereof, with one or more other effective antiviral agent, optionally with a pharmaceutically acceptable carrier or diluent;
- (f) methods for the treatment of a Flaviviridae infection in a host comprising a compound of Formula (I)-(XXIII), or its pharmaceutically acceptable salt or prodrug thereof, optionally with a pharmaceutically acceptable carrier or diluent;
- (g) methods for the treatment of a Flaviviridae infection in a host comprising a compound of Formula (I)-(XXIII), or its pharmaceutically acceptable salt or prodrug thereof, with one or more other effective antiviral agent, optionally with a pharmaceutically acceptable carrier or diluent;
- (h) uses for a compound of Formula (I)-(XXIII), or its pharmaceutically acceptable salt or prodrug thereof, optionally with a pharmaceutically acceptable carrier or diluent, for the treatment of a Flaviviridae infection in a host;
- (i) uses for a compound of Formula (I)-(XXIII), or its pharmaceutically acceptable salt or prodrug thereof, with one or more other effective antiviral agent, optionally with a pharmaceutically acceptable carrier or diluent, for the treatment of a Flaviviridae infection in a host;
- (j) uses for a compound of Formula (I)-(XXIII), or its pharmaceutically acceptable salt or prodrug thereof, optionally with a pharmaceutically acceptable carrier or diluent, in the manufacture of a medicament for the treatment of a Flaviviridae infection in a host; and

(k) uses for a compound of Formula (I)-(XXIII), or its pharmaceutically acceptable salt or prodrug thereof, with one or more other effective antiviral agent, optionally with a pharmaceutically acceptable carrier or diluent, in the manufacture of a medicament for the treatment of a Flaviviridae infection in a host.

In an alternative embodiment, the parent nucleoside compound of any of the 2'- or 3'-prodrugs (i.e., the nucleosides without the 2'- or 3'-cleavable moieties) are provided for the treatment of a Flaviviridae infection and in particular a hepatitis C infection.

BRIEF DESCRIPTION OF THE FIGURES

FIG. 1 provides the structure of various non-limiting examples of nucleosides of the present invention, as well as other known nucleosides, in particular FIAU and ribavirin.

FIG. 2 provides a non-limiting example of the steps involved in esterification of the 1', 2', 3' or 4'-branched β -D or β -L nucleoside to obtain a 2'-prodrug. The same general procedure can be used to obtain the 3'-prodrug by selectively protecting the 2' and 5'-hydroxyl groups or protecting the 2', 3' and 5'-hydroxyl groups and selectively deprotecting the 3'-hydroxyl.

FIG. 3 provides a non-limiting example of the steps involved in esterification of the 1', 2', 3' or 4'-branched β -D or β -L nucleoside to obtain a 3'-prodrug.

FIG. 4 provides a non-limiting example of the steps involved in esterification of the 1', 2', 3' or 4'-branched β -D or β -L nucleoside to obtain a 2',3'-prodrug.

DETAILED DESCRIPTION OF THE INVENTION

The invention as disclosed herein is a compound, a method and composition for the treatment of a Flaviviridae infection in humans and other host animals. The method includes the administration of an effective anti-Flaviviridae treatment amount of a 2' and/or 3'-prodrug of a 1', 2', 3' or 4'-branched β -D or β -L nucleoside as described herein or a pharmaceutically acceptable salt, derivative or prodrug thereof, optionally in a pharmaceutically acceptable carrier. The compounds of this invention either possesses antiviral (i.e., anti-HCV) activity, or are metabolized to a compound that exhibits such activity. HCV is a member of the Flaviviridae family. HCV has been placed in a new monotypic genus, *hepacivirus*. Therefore, in one embodiment, the Flaviviridae is HCV. In an alternate embodiment, the Flaviviridae is a *flavivirus* or *pestivirus*.

The 2' and/or 3'-prodrugs of a 1', 2', 3' or 4'-branched β -D or β -L nucleoside are acyl derivatives of a secondary or tertiary alcohol alpha to a secondary or tertiary carbon. Due to the steric hindrance of these prodrugs over the 5'-prodrugs, an acyl derivative of a primary alcohol, these prodrugs differentially modulate the biological properties of the molecule in vivo. It has been discovered that the 2' and/or 3'-prodrugs of a 1', 2', 3' or 4'-branched β -D or β -L nucleoside can provide a drug with increased half-life and improved pharmacokinetic profile.

The 2' or 3'-prodrug in a preferred embodiment is a cleavable acyl group, and most particularly, an amino acid moiety, prepared from any naturally occurring and synthetic α , β γ or δ amino acid, including but is not limited to, glycine, alanine, valine, leucine, isoleucine, methionine, phenylalanine, tryptophan, proline, serine, threonine, cysteine, tyrosine, asparagine, glutamine, aspartate, glutamate, lysine, arginine and histidine. In a preferred embodiment, the amino acid is in the L-configuration. Alternatively, the amino acid can be a

derivative of alanyl, valinyl, leucanyl, isoleuccinyl, prolinyl, phenylalaninyl, tryptophanyl, methioninyl, glycyl, serinyl, threoninyl, cysteinyl, tyrosinyl, asparaginyl, glutaminyl, aspartoyl, glutaroyl, lysinyl, argininyl, histidinyl, β -alanyl, β -valinyl, β -leucinyl, β -isoleuccinyl, β -prolinyl, β -phenylalaninyl, β -tryptophanyl, β -methioninyl, β -glycyl, β -serinyl, β -threoninyl, β -cysteinyl, β -tyrosinyl, β -asparaginyl, β -glutaminyl, β -aspartoyl, β -glutaroyl, β -lysyl, β -argininyl or β -histidinyl. In one particular embodiment, the moiety is a valine ester. On particularly preferred compound is the 3'-valine ester of 2',6-dimethyl-ribo-cytidine.

The oral bio-availability of 1', 2', 3' or 4'-branched β -D or β -L nucleoside as the neutral base and the HCl salt is low in rodents and non-human primates. It has been discovered that there is significant competition of 1', 2', 3' or 4'-branched β -D or β -L nucleoside with other nucleosides or nucleoside analogs for absorption, or transport, from the gastrointestinal tract and competition of other nucleosides or nucleoside analogs for the absorption with 1', 2', 3' or 4'-branched β -D or β -L nucleoside. In order to improve oral bioavailability and reduce the potential for drug-drug interaction, 2' and 3'-prodrugs of 1', 2', 3' or 4'-branched β -D or β -L nucleoside were obtained with higher oral bioavailability than the parent molecule and a reduced effect on the bioavailability of other nucleosides or nucleoside analogs used in combination.

The 2', 3', and/or 5'-mono, di or trivaline ester of a 1', 2', 3' or 4'-branched β -D or β -L nucleoside have higher oral bio-availability than the parent 1', 2', 3' or 4'-branched β -D or β -L nucleoside and reduced interaction with other nucleosides or nucleoside analogs when used in combination as compared to 1', 2', 3' or 4'-branched β -D or β -L nucleoside.

The 2', 3', and/or 5'-mono, di or trivaline ester of a 1', 2', 3' or 4'-branched β -D or β -L nucleoside can be converted to the parent 1', 2', 3' or 4'-branched β -D or β -L nucleoside through de-esterification in the gastrointestinal mucosa, blood or liver. The 2', 3', and/or 5'-mono, di or trivaline ester of a 1', 2', 3' or 4'-branched β -D or β -L nucleoside can be actively transported from the gastrointestinal lumen after oral delivery into the bloodstream by an amino acid transporter function in the mucosa of the gastrointestinal tract. This accounts for the increase in oral bioavailability compared to the parent 1', 2', 3' or 4'-branched β -D or β -L nucleoside that is transported primarily by a nucleoside transporter function. There is also reduced competition for uptake of the 2', 3', and/or 5'-mono, di or trivaline ester of 1', 2', 3' or 4'-branched β -D or β -L nucleoside with other nucleosides or nucleoside analogs that are transported by the nucleoside transporter function and not the amino acid transporter function. As partial de-esterification of the di or trivaline ester of 1', 2', 3' or 4'-branched β -D or β -L nucleoside occurs prior to complete absorption, the mono or divaline ester continues to be absorbed using the amino acid transporter function. Therefore, the desired outcome of better absorption, or bioavailability, and reduced competition with other nucleosides or nucleoside analogs for uptake into the bloodstream can be maintained.

In summary, the present invention includes the following features:

- (a) a 2' and/or 3'-prodrug of a 1', 2', 3' or 4'-branched β -D or β -L nucleoside, as described herein, and pharmaceutically acceptable salts and compositions thereof;
- (b) a 2' and/or 3'-prodrug of a 1', 2', 3' or 4'-branched β -D or β -L nucleoside as described herein, and pharmaceutically acceptable salts and compositions thereof for use in the treatment and/or prophylaxis of a Flaviviridae infection, especially in individuals diagnosed as having a Flaviviridae infection or being at risk of becoming infected by hepatitis C;

- (c) a 2' and/or 3'-prodrug of a 1', 2', 3' or 4'-branched β -D or β -L nucleoside, or their pharmaceutically acceptable salts and compositions as described herein substantially in the absence of the opposite enantiomers of the described nucleoside, or substantially isolated from other chemical entities;
- (d) processes for the preparation of a 2' and/or 3'-prodrug of a 1', 2', 3' or 4'-branched β -D or β -L nucleoside, as described in more detail below;
- (e) pharmaceutical formulations comprising a 2' and/or 3'-prodrug of a 1', 2', 3' or 4'-branched β -D or β -L nucleoside or a pharmaceutically acceptable salt thereof together with a pharmaceutically acceptable carrier or diluent;
- (f) pharmaceutical formulations comprising a 2' and/or 3'-prodrug of a 1', 2', 3' or 4'-branched β -D or β -L nucleoside or a pharmaceutically acceptable salt thereof together with one or more other effective anti-HCV agents, optionally in a pharmaceutically acceptable carrier or diluent;
- (g) pharmaceutical formulations comprising a 2' and/or 3'-prodrug of a 1', 2', 3' or 4'-branched β -D or β -L nucleoside or a pharmaceutically acceptable salt thereof together with the parent of a different a 1', 2', 3' or 4'-branched β -D or β -L nucleoside, optionally in a pharmaceutically acceptable carrier or diluent;
- (h) a method for the treatment and/or prophylaxis of a host infected with Flaviviridae that includes the administration of an effective amount of a 2' and/or 3'-prodrug of a 1', 2', 3' or 4'-branched β -D or β -L nucleoside; its pharmaceutically acceptable salt or composition;
- (i) a method for the treatment and/or prophylaxis of a host infected with Flaviviridae that includes the administration of an effective amount of a 2' and/or 3'-prodrug of a 1', 2', 3' or 4'-branched β -D or β -L nucleoside, its pharmaceutically acceptable salt or composition in combination and/or alternation with one or more effective anti-HCV agent;
- (j) a method for the treatment and/or prophylaxis of a host infected with Flaviviridae that includes the administration of an effective amount of a 2' and/or 3'-prodrug of a 1', 2', 3' or 4'-branched β -D or β -L nucleoside, or its pharmaceutically acceptable salt or composition with the parent of a different a 1', 2', 3' or 4'-branched β -D or β -L nucleoside;
- (k) a method for the treatment and/or prophylaxis of a host infected with Flaviviridae that includes the administration of an effective amount of a 2' and/or 3'-prodrug of a β -D-2'-methyl-cytidine, or its pharmaceutically acceptable salt or composition thereof;
- (l) a method for the treatment and/or prophylaxis of a host infected with Flaviviridae that includes the administration of an effective amount of the 2'-valyl or acetyl ester of β -D-2'-methyl-cytidine, or its pharmaceutically acceptable salt or composition thereof;
- (m) use of a 2' and/or 3'-prodrug of a 1', 2', 3' or 4'-branched β -D or β -L nucleoside, and pharmaceutically acceptable salts and compositions thereof for the treatment and/or prophylaxis of a Flaviviridae infection in a host;
- (n) use of a 2' and/or 3'-prodrug of a 1', 2', 3' or 4'-branched β -D or β -L nucleoside, its pharmaceutically acceptable salt or composition in combination and/or alternation with one or more effective anti-HCV agent for the treatment and/or prophylaxis of a Flaviviridae infection in a host;
- (o) use of a 2' and/or 3'-prodrug of a 1', 2', 3' or 4'-branched β -D or β -L nucleoside, or its pharmaceutically acceptable salt or composition with the parent of a different a 1', 2', 3' or 4'-branched β -D or β -L nucleoside for the treatment and/or prophylaxis of a Flaviviridae infection in a host;

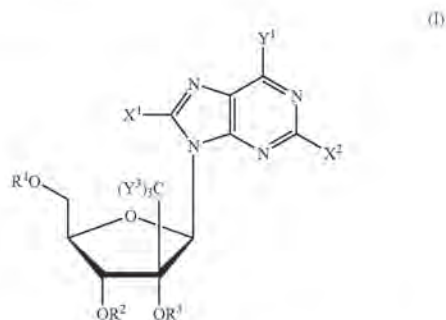
- (p) use of a 2' and/or 3'-prodrug of a β -D-2'-methyl-cytidine, or its pharmaceutically acceptable salt or composition thereof for the treatment and/or prophylaxis of a Flaviviridae infection in a host;
- (q) use of the 3'-valyl or acetyl ester of β -D-2'-methyl-cytidine, or its pharmaceutically acceptable salt or composition thereof for the treatment and/or prophylaxis of a Flaviviridae infection in a host;
- (r) use of a 2' and/or 3'-prodrug of a 1', 2', 3' or 4'-branched β -D or β -L nucleoside, and pharmaceutically acceptable salts and compositions thereof in the manufacture of a medicament for treatment and/or prophylaxis of a Flaviviridae infection;
- (s) use of a 2' and/or 3'-prodrug of a 1', 2', 3' or 4'-branched β -D or β -L nucleoside, its pharmaceutically acceptable salt or composition in combination and/or alternation with one or more effective anti-HCV agent in the manufacture of a medicament for the treatment and/or prophylaxis of a Flaviviridae infection in a host;
- (t) use of a 2' and/or 3'-prodrug of a 1', 2', 3' or 4'-branched β -D or β -L nucleoside, or its pharmaceutically acceptable salt or composition with the parent of a different a 1', 2', 3' or 4'-branched β -D or β -L nucleoside in the manufacture of a medicament for the treatment and/or prophylaxis of a Flaviviridae infection in a host;
- (u) use of a 2' and/or 3'-prodrug of a β -D-2'-methyl-cytidine, or its pharmaceutically acceptable salt or composition thereof in the manufacture of a medicament for the treatment and/or prophylaxis of a Flaviviridae infection in a host; and
- (v) use of the 2'-valyl or acetyl ester of β -D-2'-methyl-cytidine, or its pharmaceutically acceptable salt or composition thereof in the manufacture of a medicament for the treatment and/or prophylaxis of a Flaviviridae infection in a host.

Flaviviridae included within the scope of this invention are discussed generally in *Fields Virology*, Editors: Fields, B. N., Knipe, D. M., and Howley, P. M., Lippincott-Raven Publishers, Philadelphia, Pa., Chapter 31, 1996. In a particular embodiment of the invention, the Flaviviridae is HCV. In an alternate embodiment of the invention, the Flaviviridae is a *flavivirus* or *pestivirus*. Specific *flaviviruses* include, without limitation: Absettarov, Alfuy, Apoi, Aroa, Bagaza, Banzi, Bouboui, Bussuquara, Cacipacore, Carey Island, Dakar bat, Dengue 1, Dengue 2, Dengue 3, Dengue 4, Edge Hill, Entebbe bat, Gadgets Gully, Hanzalova, Hypr, Ilheus, Israel turkey meningoencephalitis, Japanese encephalitis, Jagra, Jutiapa, Kadam, Karshi, Kedougou, Kokobera, Koutango, Kumlinge, Kunjin, Kyasanur Forest disease, Langat, Louping ill, Meaban, Modoc, Montana myotis leukoencephalitis, Murray valley encephalitis, Naranjal, Negishi, Ntaya, Omsk hemorrhagic fever, Phnom-Penh bat, Powassan, Rio Bravo, Rocio, Royal Farm, Russian spring-summer encephalitis, Saboya, St. Louis encephalitis, Sal Vieja, San Perlita, Saumarez Reef, Sepik, Sokuluk, Spondweni, Stratford, Tembusu, Tyuleniy, Uganda S, Usutu, Wesselsbron, West Nile, Yaounde, Yellow fever, and Zika.

Pestiviruses included within the scope of this invention are discussed generally in *Fields Virology*, Editors: Fields, B. N., Knipe, D. M., and Howley, P. M., Lippincott-Raven Publishers, Philadelphia, Pa., Chapter 33, 1996. Specific *pestiviruses* include, without limitation: bovine viral diarrhea virus ("BVDV"), classical swine fever virus ("CSFV," also called hog cholera virus), and border disease virus ("BDV").

I. Active Compounds.

In a first principal embodiment, a compound of Formula (I), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, as well as a method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (I):



or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, wherein: R^1 , R^2 and R^3 are independently H, phosphate (including mono-, di- or triphosphate and a stabilized phosphate); straight chained, branched or cyclic alkyl (including lower alkyl); acyl (including lower acyl); CO-alkyl, CO-aryl, CO-alkoxyalkyl, CO-aryloxyalkyl, CO-substituted aryl, sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; alkylsulfonyl, arylsulfonyl, aralkylsulfonyl, a lipid, including a phospholipid; an amino acid; and amino acid residue, a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered in vivo is capable of providing a compound wherein R^1 , R^2 and/or R^3 is independently H or phosphate (including mono-, di- or triphosphate); wherein in one embodiment R^2 and/or R^3 is not phosphate (including mono-, di- or triphosphate or a stabilized phosphate prodrug);

wherein at least one of R^2 and R^3 is not hydrogen;

Y^1 is hydrogen, bromo, chloro, fluoro, iodo, CN, OH, OR^4 , NH_2 , NHR^4 , NR^4R^5 , SH or SR^4 ;

X^1 is a straight chained, branched or cyclic optionally substituted alkyl, CH_3 , CF_3 , $C(Y^3)_3$, 2-Br-ethyl, CH_2F , CH_2Cl , CH_2CF_3 , CF_2CF_3 , $C(Y^3)_2C(Y^3)_3$, CH_2OH , optionally substituted alkenyl, optionally substituted alkynyl, $COOH$, $COOR^4$, $COO-aryl$, $CO-Oalkoxyalkyl$, $CONH_2$, $CONHR^4$, $CON(R^4)_2$, chloro, bromo, fluoro, iodo, CN, N_3 , OH, OR^4 , NH_2 , NHR^4 , NR^4R^5 , SH or SR^4 ;

X^2 is H, straight chained, branched or cyclic optionally substituted alkyl, CH_3 , CF_3 , $C(Y^3)_3$, 2-Br-ethyl, CH_2F , CH_2Cl , CH_2CF_3 , CF_2CF_3 , $C(Y^3)_2C(Y^3)_3$, CH_2OH , optionally substituted alkenyl, optionally substituted alkynyl, $COOH$, $COOR^4$, $COO-alkyl$, $COO-aryl$, $CO-Oalkoxyalkyl$, $CONH_2$, $CONHR^4$, $CON(R^4)_2$, chloro, bromo, fluoro, iodo, CN, N_3 , OH, OR^4 , NH_2 , NHR^4 , NR^4R^5 , SH or SR^4 ; and

wherein each Y^3 is independently H, F, Cl, Br or I;

each R^4 and R^5 is independently hydrogen, acyl (including lower acyl), alkyl (including but not limited to methyl, ethyl, propyl and cyclopropyl), lower alkyl, alkenyl, alkynyl or cycloalkyl.

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In a preferred subembodiment, a compound of Formula (I) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, as well as a method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (I) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, wherein:

R^1 is H or phosphate (preferably H);

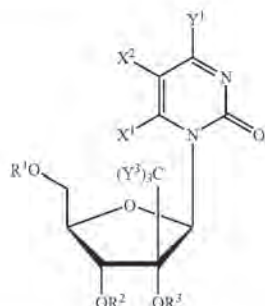
R^2 and R^3 are independently H, phosphate, acyl or an amino acid residue, wherein at least one of R^2 and R^3 is acyl or an amino acid residue;

X^1 is CH_3 , CF_3 or CH_2CH_3 ;

X^2 is H or NH_2 ; and

Y is hydrogen, bromo, chloro, fluoro, iodo, NH_2 or OH.

In a second principal embodiment, a compound of Formula (II) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, as well as a method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (II):



or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, wherein: R^1 , R^2 , R^3 , R^4 , R^5 , Y^1 , Y^3 , X^1 and X^2 are as defined above.

In a preferred subembodiment, a compound of Formula (II), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, as well as a method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (II) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, wherein:

R^1 is H or phosphate (preferably H);

R^2 and R^3 are independently H, phosphate, acyl or an amino acid residue, wherein at least one of R^2 and R^3 is acyl or an amino acid residue;

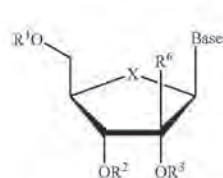
X^1 is CH_3 , CF_3 or CH_2CH_3 ;

X^2 is H, F, Cl, Br, I or CH_3 ; and

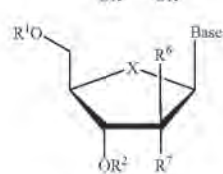
Y is hydrogen, bromo, chloro, fluoro, iodo, NH_2 or OH.

In a third principal embodiment, a compound of Formula (III), (IV) or (V) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, as well as a method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (III), (IV), or (V):

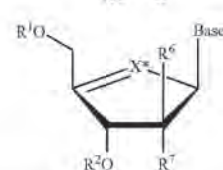
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(III)



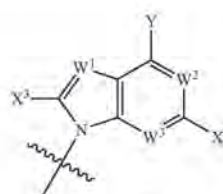
(IV)



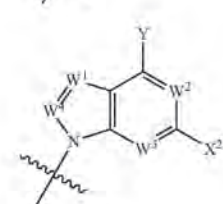
(V)

or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, wherein: R^1 , R^2 , R^3 , R^4 , R^5 , Y, Y^1 and X^2 are as defined above;

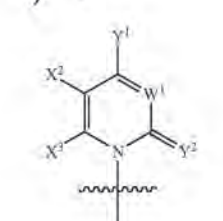
Base is selected from the group consisting of:



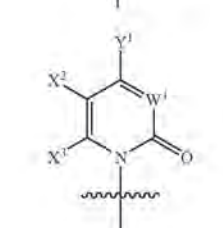
(A)



(B)



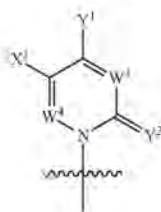
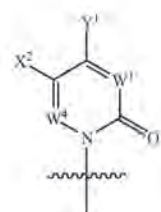
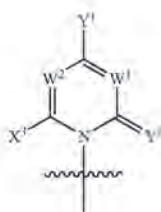
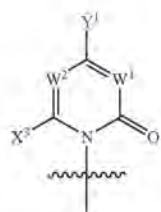
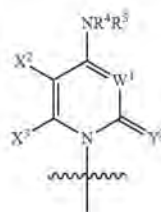
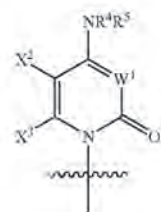
(C)



(D)

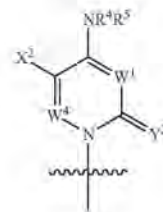
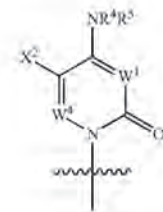
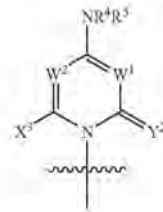
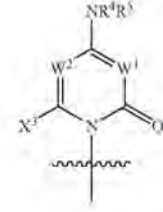
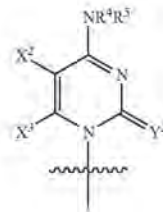
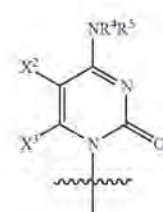
47

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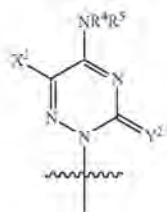
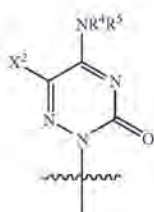
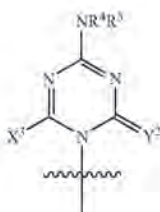
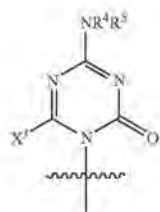
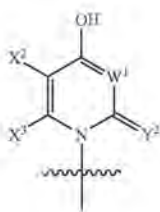
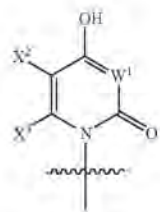
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(Q)

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(R)

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(S)

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(T)

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(U)

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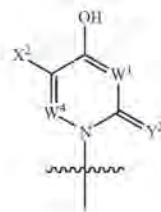
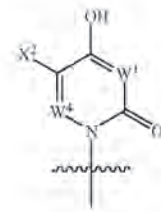
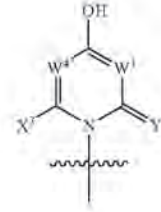
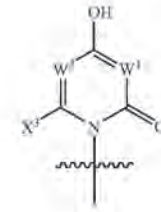
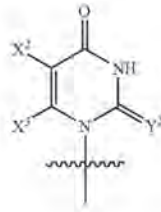
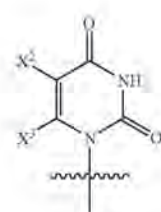
(V)

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(W)

(X)

(Y)

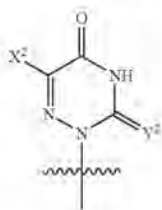
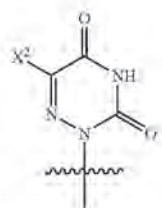
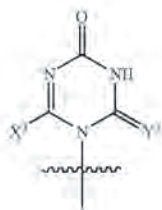
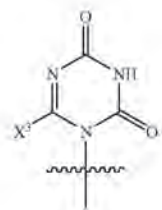
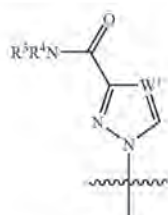
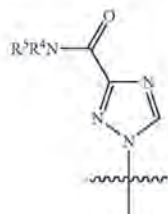
(Z)

(AA)

(AB)

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(AC)

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(AD)

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(AG)

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(AH)

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(AI)

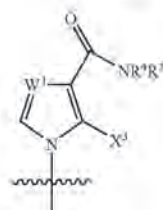
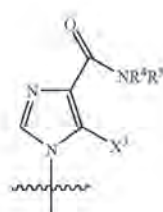
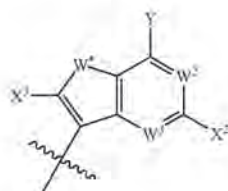
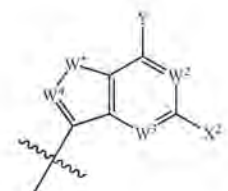
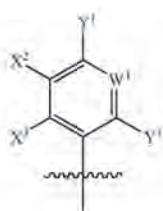
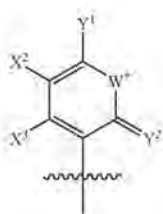
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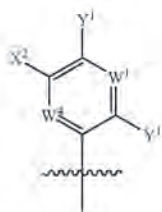
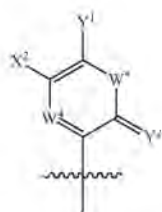
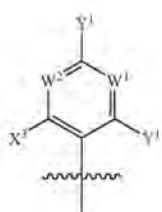
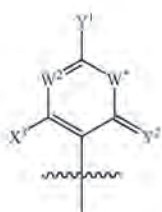
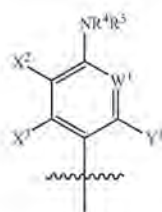
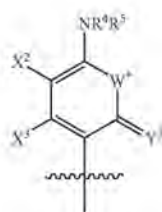
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(III)



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(BE)

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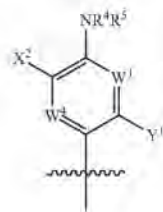
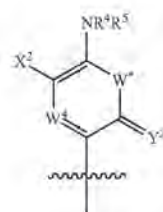
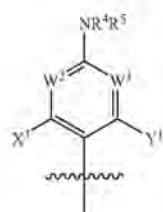
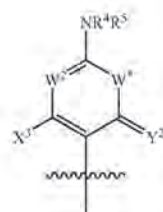
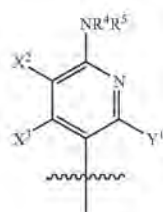
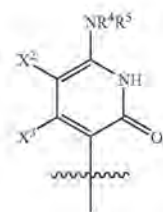
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(BK)

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(BM)

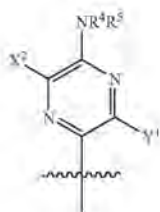
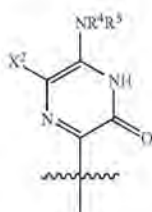
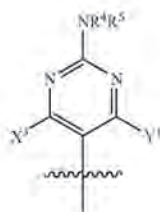
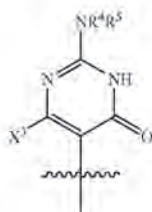
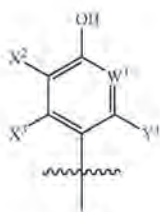
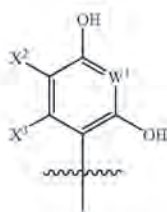
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(BQ)

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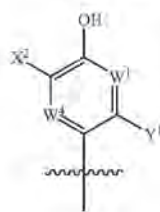
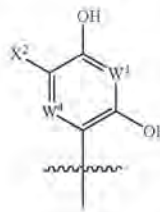
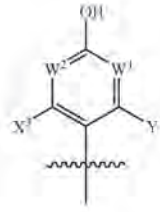
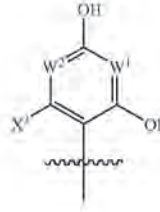
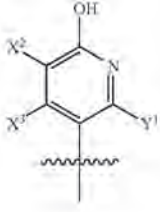
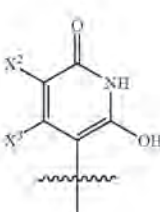
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(BW)

(BX)

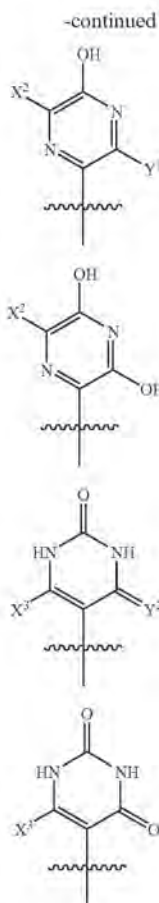
(BY)

(BZ)

(BAA)

(BAB)

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each W^1 , W^2 , W^3 and W^4 is independently N, CH, CF, Cl, CBr, CCl, CCN, CCH₃, CCF₃, CCH₂CH₃, CC(O)NH₂, CC(O)NHR⁴, CC(O)N(R⁴)₂, CC(O)OH, CC(O)OR⁴ or CX³;

each W^5 is independently O, S, NH or NR⁴;
wherein for Base (B), W^4 cannot be CH if W^1 , W^2 and W^3 are N;

wherein for Base (E), (F), (K), (L), (W) and (X), W^4 cannot be CH if W^1 is N;

X is O, S, SO₂, CH₂, CH₂OH, CHF, CF₂, C(Y³)₂, CHCN, C(CN)₂, CHR⁴ or C(R⁴)₂;

X* is CH, CF, CY³ or CR⁴;

each X³ is independently a straight chained, branched or cyclic optionally substituted alkyl (including lower alkyl), CH₃, CH₂CN, CH₂N₃, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂OH, halogenated alkyl (including halogenated lower alkyl), CF₃, C(Y³)₃, 2-Br-ethyl, CH₂F, CH₂Cl, CH₂CF₃, CF₃CF₃, C(Y³)₂C(Y³)₃, optionally substituted alkenyl, haloalkenyl, Br-vinyl, optionally substituted alkynyl, haloalkynyl, N₃, CN, —C(O)OH, —C(O)OR⁴, —C(O)O(lower alkyl), —C(O)NH₂, —C(O)NHR⁴, —C(O)NH(lower alkyl), —C(O)N(R⁴)₂, —C(O)N(lower alkyl)₂, OH, OR⁴, —O(acyl), —O(lower acyl), —O(alkyl), —O(lower alkyl), —O(alkenyl), —O(alkynyl), —O(aralkyl), —O(cycloalkyl), —S(acyl), —S(lower acyl), —S(R⁴), —S(lower alkyl), —S(alkenyl), —S(alkynyl), —S(aralkyl), —S(cycloalkyl), —S(alkenyl), —S(alkynyl), —S(aralkyl), —S(cycloalkyl), chloro, bromo, fluoro, iodo, NH₂, —NH(lower alkyl), —NHR⁴, —NR⁴R⁵, —NH

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(acyl), —N(lower alkyl)₂, —NH(alkenyl), —NH(alkynyl), —NH(aralkyl), —NH(cycloalkyl), —N(acyl)₂;

each Y² is independently O, S, NH or NR⁴;

each Y³ is independently H, F, Cl, Br or I;

each R⁶ is independently an optionally substituted alkyl (including lower alkyl), CH₃, CH₂CN, CH₂N₃, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂OH, halogenated alkyl (including halogenated lower alkyl), CF₃, C(Y³)₃, 2-Br-ethyl, CH₂F, CH₂Cl, CH₂CF₃, CF₂CF₃, C(Y³)₂C(Y³)₃, optionally substituted alkenyl, haloalkenyl, Br-vinyl, optionally substituted alkynyl, haloalkynyl, —CH₂C(O)OH, —CH₂C(O)OR⁴, —CH₂C(O)O(lower alkyl), —CH₂C(O)NH₂, —CH₂C(O)NHR⁴, —CH₂C(O)NH(lower alkyl), —CH₂C(O)N(R⁴)₂, —CH₂C(O)N(lower alkyl)₂, —(CH₂)_mC(O)OH, —(CH₂)_mC(O)OR⁴, —(CH₂)_mC(O)O(lower alkyl), —(CH₂)_mC(O)NH₂, —(CH₂)_mC(O)NHR⁴, —(CH₂)_mC(O)NH(lower alkyl), —(CH₂)_mC(O)N(R⁴)₂, —(CH₂)_mC(O)N(lower alkyl)₂, —C(O)OH, —C(O)OR⁴, —C(O)O(lower alkyl), —C(O)NH₂, —C(O)NHR⁴, —C(O)NH(lower alkyl), —C(O)N(R⁴)₂, —C(O)N(lower alkyl)₂ or cyano;

each R⁷ is independently OH, OR², optionally substituted alkyl (including lower alkyl), CH₃, CH₂CN, CH₂N₃, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂OH, halogenated alkyl (including halogenated lower alkyl), CF₃, C(Y³)₃, 2-Br-ethyl, CH₂F, CH₂Cl, CH₂CF₃, CF₂CF₃, C(Y³)₂C(Y³)₃, optionally substituted alkenyl, haloalkenyl, Br-vinyl, optionally substituted alkynyl, haloalkynyl, optionally substituted carbocycle (preferably a 3-7 membered carbocyclic ring), optionally substituted heterocycle (preferably a 3-7 membered heterocyclic ring having one or more O, S and/or N), optionally substituted heteroaryl (preferably a 3-7 membered heteroaromatic ring having one or more O, S and/or N), —CH₂C(O)OH, —CH₂C(O)OR⁴, —CH₂C(O)O(lower alkyl), —CH₂C(O)SH, —CH₂C(O)SR⁴, —CH₂C(O)S(lower alkyl), —CH₂C(O)NH₂, —CH₂C(O)NHR⁴, —CH₂C(O)NH(lower alkyl), —CH₂C(O)N(R⁴)₂, —CH₂C(O)N(lower alkyl)₂, —(CH₂)_mC(O)OH, —(CH₂)_mC(O)OR⁴, —(CH₂)_mC(O)O(lower alkyl), —(CH₂)_mC(O)SH, —(CH₂)_mC(O)SR⁴, —(CH₂)_mC(O)S(lower alkyl), —(CH₂)_mC(O)NH₂, —(CH₂)_mC(O)NHR⁴, —(CH₂)_mC(O)NH(lower alkyl), —(CH₂)_mC(O)N(R⁴)₂, —(CH₂)_mC(O)N(lower alkyl)₂, —C(O)OH, —C(O)OR⁴, —C(O)O(lower alkyl), —C(O)SH, —C(O)SR⁴, —C(O)S(lower alkyl), —C(O)NH₂, —C(O)NHR⁴, —C(O)NH(lower alkyl), —C(O)N(R⁴)₂, —C(O)N(lower alkyl)₂, —O(acyl), —O(lower acyl), —O(R⁴), —O(alkyl), —O(lower alkyl), —O(alkenyl), —O(alkynyl), —O(aralkyl), —O(cycloalkyl), —S(acyl), —S(lower acyl), —S(R⁴), —S(lower alkyl), —S(alkenyl), —S(alkynyl), —S(aralkyl), —S(cycloalkyl), NO₂, NH₂, —NH(lower alkyl), —NHR⁴, —NR⁴R⁵, —NH(acyl), —N(lower alkyl)₂, —NH(alkenyl), —NH(alkynyl), —NH(aralkyl), —NH(cycloalkyl), —N(acyl)₂, azido, cyano, SCN, OCN, NCO or halo (fluoro, chloro, bromo, iodo);

alternatively, R⁶ and R⁷ can come together to form a spiro compound selected from the group consisting of optionally substituted carbocycle (preferably a 3-7 membered carbocyclic ring) or optionally substituted heterocycle (preferably a 3-7 membered heterocyclic ring having one or more O, S and/or N); and

each m is independently 0, 1 or 2.

In a first subembodiment, the compound of Formula (III), (IV) or (V), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, or the method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (III), (IV), or (V) or a

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pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, wherein:

R^1 is H or phosphate (preferably H);

R^2 and R^3 are independently H, phosphate, acyl or an amino acid residue, wherein at least one of R^2 and R^3 is acyl or an amino acid residue;

 W^4 is CX^3 ;

X^3 is CH_3 , CF_3 , or CH_2CH_3 :

R⁶ is alkyl; and

X is O, S, SO₂ or CH₃.

In a second subembodiment, the compound of Formula (III), (IV) or (V), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, or the method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (III), (IV) or (V), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, wherein:

R^1 is H or phosphate (preferably H):

R^2 and R^3 are independently H, phosphate, acyl or an amino acid residue, wherein at least one of R^2 and R^3 is an amino acid residue;

 W^+ is CX^3 :

X^3 is CH_3 , CF_3 , or CH_2CH_3 :

R⁶ is alkyl; and

X is O, S, SO₂ or CH₃.

In a third subembodiment, the compound of Formula (III), (IV) or (V), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, or the method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (III), (IV) or (V), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, wherein:

R^1 is H or phosphate (preferably H);

R^2 and R^3 are independently H, phosphate, acyl or an amino acid residue, wherein at least one of R^2 and R^3 is acyl or an amino acid residue;

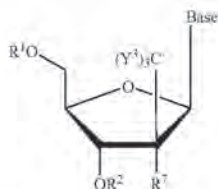
 W^4 is CX^3 :

X³ is CH₃, CF₃, or CH₂CH₃;

R⁶ is alkyl; and

 X is $\mathcal{O}_K$.

In even more preferred subembodiment, the compound of Formula (IV(a)), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, as well as the method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (IV(a)):



or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, wherein:

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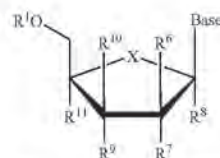
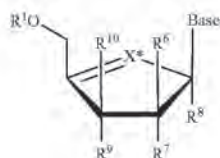
Base is as defined herein; optionally substituted with an amine or cyclopropyl (e.g., 2-amino, 2,6-diamino or cyclopropyl guanosine);

R⁷ is halo (F, Cl, Br or I), though preferably F:

R¹ is H; phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R¹ or R² is independently H or phosphate. In one embodiment R² is not phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); and

R² is phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered in vivo is capable of providing a compound wherein R¹ or R² is independently H or phosphate. In one embodiment R² is not phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug).

In a fourth principal embodiment, a compound of Formula (VI) or (VII) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, as well as a method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (VI) or (VII):



or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, wherein:

Base, R , R^1 , R^4 , R^5 , R^6 , R^7 , Y , Y^1 , Y^2 , Y^3 , W^* , W^1 , W^2 , W^3 , W^4 , X , X^* , X^1 , X^2 , and X are as defined above:

wherein, in one embodiment, R^8 in Formula (VI) is $-OH$ or $-NH_2$, only when X is carbon; and

wherein:

each R^8 and R^{11} is independently hydrogen, an optionally substituted alkyl (including lower alkyl), CH_3 , CH_2CN , CH_2N_3 , CH_2NH_2 , CH_2NHCH_3 , $CH_2N(CH_3)_2$, CH_2OH , halogenated alkyl (including halogenated lower alkyl), CF_3 , $C(Y^3)_3$, 2-Br-ethyl, CH_2F , CH_2Cl , CH_2CF_3 , CF_2CF_3 , $C(Y^3)_2C(Y^3)$, optionally substituted alkenyl, haloalkenyl, Br-vinyl, optionally substituted alkynyl, haloalkynyl, $-CH_2C(O)OH$, $-CH_2C(O)OR^4$, $-CH_2C(O)O$ (lower alkyl), $-CH_2C(O)NH_2$, $-CH_2C(O)NHR^4$, $-CH_2C(O)NH$ (lower alkyl), $-CH_2C(O)N(R^4)_2$, $-CH_2C(O)N$ (lower alkyl), $-CH_2C(O)O$ (lower alkyl), $-CH_2C(O)OR^4$, $-CH_2C(O)NH_2$, $-CH_2C(O)NHR^4$, $-CH_2C(O)NH$ (lower alkyl), $-CH_2C(O)N(R^4)_2$, $-C(O)OH$, $-C(O)OR^4$, $-C(O)O$ (lower alkyl), $-C(O)NH_2$, $-C(O)NHR^4$, $-C(O)NH$ (lower alkyl), $-C(O)N(R^4)_2$, $-C(O)N$ (lower alkyl), cyano, NH-acyl or N(acyl);

each R^9 and R^{10} are independently hydrogen, OH, OR^2 , optionally substituted alkyl (including lower alkyl), CH_3 , CH_2CN , CH_2N_3 , CH_2NH_2 , CH_2NHCH_3 , $CH_2N(CH_3)_2$, CH_2OH , halogenated alkyl (including halogenated lower alkyl), CF_3 , $C(Y^3)_3$, 2-Br-ethyl, CH_2F , CH_2Cl , CH_2CF_3 , CF_2CF_3 , $C(Y^3)_2C(Y^3)$, optionally substituted alkenyl, haloalkenyl, Br-vinyl, optionally substituted alkynyl, haloalkynyl, optionally substituted carbocycle (preferably a 3-7 membered carbocyclic ring), optionally substituted heterocycle (preferably a 3-7 membered heterocyclic ring having one or more O, S and/or N), optionally substituted heteroaryl (preferably a 3-7 membered heteroaromatic ring having one or more O, S and/or N), $-CH_2C(O)OH$, $-CH_2C(O)OR^4$, $-CH_2C(O)O$ (lower alkyl), $-CH_2C(O)SH$, $-CH_2C(O)SR^4$, $-CH_2C(O)S$ (lower alkyl), $-CH_2C(O)NH_2$, $-CH_2C(O)NHR^4$, $-CH_2C(O)NH$ (lower alkyl), $-CH_2C(O)N(R^4)_2$, $-CH_2C(O)N$ (lower alkyl), $-CH_2C(O)O$ (lower alkyl), $-CH_2C(O)OR^4$, $-CH_2C(O)NH_2$, $-CH_2C(O)NHR^4$, $-CH_2C(O)NH$ (lower alkyl), $-CH_2C(O)N(R^4)_2$, $-C(O)OH$, $-C(O)OR^4$, $-C(O)O$ (lower alkyl), $-C(O)SH$, $-C(O)SR^4$, $-C(O)S$ (lower alkyl), $-C(O)NH_2$, $-C(O)NHR^4$, $-C(O)NH$ (lower alkyl), $-C(O)N(R^4)_2$, $-C(O)N$ (lower alkyl), $-O$ (acyl), $-O$ (lower acyl), $-O(R^4)$, $-O$ (alkyl), $-O$ (lower alkyl), $-O$ (alkenyl), $-O$ (alkynyl), $-O$ (aralkyl), $-O$ (cycloalkyl), $-S$ (acyl), $-S$ (lower acyl), $-S(R^4)$, $-S$ (lower alkyl), $-S$ (alkenyl), $-S$ (alkynyl), $-S$ (aralkyl), $-S$ (cycloalkyl), NO_2 , NH_2 , $-NH$ (lower alkyl), $-NHR^4$, $-NR^4R^5$, $-NH$ (acyl), $-N$ (lower alkyl), $-NH$ (alkenyl), $-NH$ (alkynyl), $-NH$ (aralkyl), $-NH$ (cycloalkyl), $-N$ (acyl), azido, cyano, SCN, OCN, NCO or halo (fluoro, chloro, bromo, iodo);

each m is independently 0, 1 or 2; and

alternatively, R^6 and R^{10} , R^7 and R^9 , R^8 and R^7 or R^9 and R^{11} can come together to form a bridged compound selected from the group consisting of optionally substituted carbocycle (preferably a 3-7 membered carbocyclic ring) or optionally substituted heterocycle (preferably a 3-7 membered heterocyclic ring having one or more O, S and/or N); or

alternatively, R^6 and R^7 or R^9 and R^{10} can come together to form a spiro compound selected from the group consisting of optionally substituted carbocycle (preferably a 3-7 membered carbocyclic ring) or optionally substituted heterocycle (preferably a 3-7 membered heterocyclic ring having one or more O, S and/or N).

In a particularly preferred embodiment, a compound of Formula (VI), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, as well as a method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (VI) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, in which: X is O, S, SO or SO_2 ; and/or

each R^6 is independently an optionally substituted lower alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted cycloalkyl, CH_2OH , CH_2NH_2 , CH_2NHCH_3 , $CH_2N(CH_3)_2$, CH_2F , CH_2Cl , CH_2N_3 , CH_2CN , CH_2CF_3 , CF_3 , CF_2CF_3 , $CH_2CO_2R^4$, $(CH_2)_mCOOH$, $(CH_2)_mCOOR^4$, $(CH_2)_mCONH_2$, $(CH_2)_mCON(R^4)_2$, or $(CH_2)_mCONHR^4$; and/or

each R^7 is independently $-OH$, optionally substituted lower alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted cycloalkyl, $-O$ -alkyl, $-O$ -alkenyl, $-O$ -alkynyl, $-O$ -aralkyl, $-O$ -cycloalkyl, $-O$ -acyl, F, Cl, Br, I, CN, NC, SCN, OCN, NCO, NO_2 , NH_2 , N_3 , NH-acyl, NH-alkyl, N-dialkyl, NH-alkenyl, NH-alkynyl, NH-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-alkenyl, S-alkynyl, S-aralkyl, S-acyl, S-cycloalkyl, CO_2 -alkyl, CONH-alkyl, CON-dialkyl, CONH-alkenyl, CONH-alkynyl, CONH-aralkyl, CONH-cycloalkyl, CH_2OH , CH_2NH_2 , CH_2NHCH_3 , $CH_2N(CH_3)_2$, CH_2F , CH_2Cl , CH_2N_3 , CH_2CN , CH_2CF_3 , CF_3 , CF_2CF_3 , $CH_2CO_2R^4$, $(CH_2)_mCOOH$, $(CH_2)_mCOOR^4$, $(CH_2)_mCONH_2$, $(CH_2)_mCON(R^4)_2$, $(CH_2)_mCONHR^4$, an optionally substituted 3-7 membered carbocyclic, and an optionally substituted 3-7 membered heterocyclic ring having O, S and/or N independently as a heteroatom taken alone or in combination; and/or

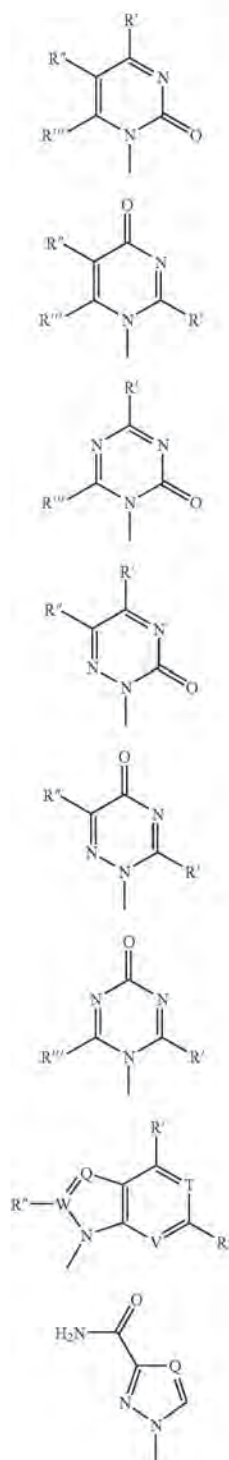
each R^8 is independently hydrogen, optionally substituted lower alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted cycloalkyl, $-OH$, $-O$ -alkyl, $-O$ -alkenyl, $-O$ -alkynyl, $-O$ -aralkyl, $-O$ -cycloalkyl, $-O$ -acyl, F, Cl, Br, I, CN, NC, SCN, OCN, NCO, NO_2 , NH_2 , N_3 , NH-acyl, NH-alkyl, N-dialkyl, NH-alkenyl, NH-alkynyl, NH-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-alkenyl, S-alkynyl, S-aralkyl, S-acyl, S-cycloalkyl, CO_2 -alkyl, CONH-alkyl, CON-dialkyl, CONH-alkenyl, CONH-alkynyl, CONH-aralkyl, CONH-cycloalkyl, CH_2OH , CH_2NH_2 , CH_2NHCH_3 , $CH_2N(CH_3)_2$, CH_2F , CH_2Cl , CH_2N_3 , CH_2CN , CH_2CF_3 , CF_3 , CF_2CF_3 , $CH_2CO_2R^4$, $(CH_2)_mCOOH$, $(CH_2)_mCOOR^4$, $(CH_2)_mCONH_2$, $(CH_2)_mCON(R^4)_2$, $(CH_2)_mCONHR^4$, an optionally substituted 3-7 membered carbocyclic, and an optionally substituted 3-7 membered heterocyclic ring having O, S and/or N independently as a heteroatom taken alone or in combination; and/or

each R^{10} is independently hydrogen, an optionally substituted lower alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted cycloalkyl, CH_2OH , CH_2NH_2 , CH_2NHCH_3 , $CH_2N(CH_3)_2$, CH_2F , CH_2Cl , CH_2N_3 , CH_2CN , CH_2CF_3 , CF_3 , CF_2CF_3 , $CH_2CO_2R^4$, $(CH_2)_mCOOH$, $(CH_2)_mCOOR^4$, $(CH_2)_mCONH_2$, $(CH_2)_mCON(R^4)_2$, or $(CH_2)_mCONHR^4$; and/or

each R^8 and R^{11} is independently H, CH_3 , CH_2OH , CH_2F , CH_2N_3 , $(CH_2)_mCOOH$, $(CH_2)_mCOOR^4$, $(CH_2)_mCONH_2$, $(CH_2)_mCON(R^4)_2$, $(CH_2)_mCONHR^4$ and N-acyl; and/or

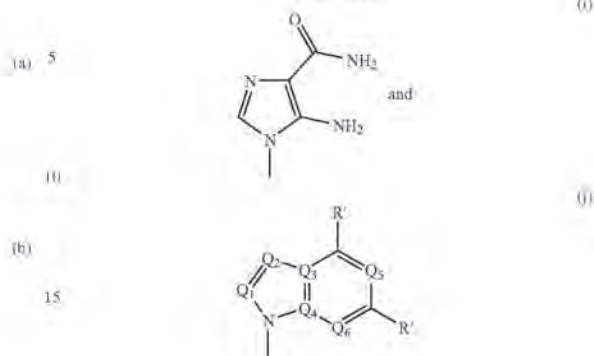
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each m is independently 0 or 1; and/or
Base is selected from one of the following:



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-continued



wherein:

each R', R'', R''' and R'''' is independently selected from the group consisting of H, OH, substituted or unsubstituted alkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted alkynyl, cycloalkyl, Br-vinyl, —O-alkyl, O-alkenyl, O-alkynyl, O-aryl, O-aralkyl, —O-acyl, O-cycloalkyl, NH₂, NH-alkyl, N-dialkyl, NH-acyl, N-aryl, N-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-acyl, S-aryl, S-cycloalkyl, S-aralkyl, F, Cl, Br, I, CN, COOH, CONH₂, CO₂-alkyl, CONH-alkyl, CON-dialkyl, OH, CF₃, CH₂OH, (CH₂)_mOH, (CH₂)_mNH₂, (CH₂)_mCOOH, (CH₂)_mCN, (CH₂)_mNO₂ and (CH₂)_mCONH₂;

W is C—R'' or N;

T and V independently are CH or N;

Q is CH, —CCl, —CBr, —CF, —Cl, —CCN, —C—COOH, —C—CONH₂, or N;Q₁, and Q₂ independently are N or C—R;

wherein R is H, alkyl or acyl;

Q₃, Q₄, Q₅ and Q₆ independently are N or CH; and tautomeric forms thereof.

In a particularly preferred alternative embodiment, a compound of Formula (VI), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, as well as a method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (VI) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, in which:

X is O, S, SO or SO₂; and/or

R⁶ and R⁷ come together to form a spiro compound selected from the group consisting of optionally substituted 3-7 membered spiro carbocyclic or heterocyclic compound having one or more N, O and/or S atoms, said heteroatoms independently taken alone or in combination with one another; and/or

each R⁸ is independently hydrogen, optionally substituted lower alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted cycloalkyl, —OH, —O-alkyl, —O-alkenyl, —O-alkynyl, —O-aralkyl, —O-cycloalkyl, —O-acyl, F, Cl, Br, I, CN, NC, SCN, OCN, NCO, NO₂, NH₂, N₃, NH-acyl, NH-alkyl, N-dialkyl, NH-alkenyl, NH-alkynyl, NH-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-alkenyl, S-alkynyl, S-aralkyl, S-acyl, S-cycloalkyl, CO₂-alkyl, CONH-alkyl, CON-dialkyl, CONH-alkenyl, CONH-alkynyl, CONH-aralkyl, CONH-cycloalkyl, CH₂OH, CH₂NH₂.

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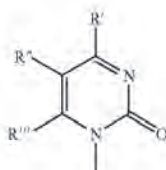
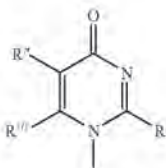
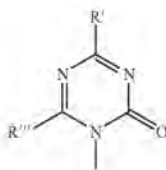
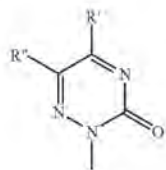
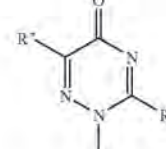
CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃,
CH₂CN, CH₂CF₃, CF₃, CF₂CF₃, CH₂CO₂R⁴, (CH₂)_m
COOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON
(R⁴)₂, (CH₂)_mCONHR⁴, an optionally substituted 3-7
membered carbocyclic, and an optionally substituted 3-7
membered heterocyclic ring having O, S and/or N
independently as a heteroatom taken alone or in combi-
nation; and/or

each R¹⁰ is independently hydrogen, an optionally substi-
tuted lower alkyl, optionally substituted alkenyl, option-
ally substituted alkynyl, optionally substituted
cycloalkyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂N
(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃, CF₃,
CF₂CF₃, CH₂CO₂R⁴, (CH₂)_mCOOH, (CH₂)_mCOOR⁴,
(CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, or (CH₂)_m
CONHR⁴; and/or

each R⁸ and R¹¹ is independently H, CH₃, CH₂OH, CH₂F,
CH₂N₃, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_m
CONH₂, (CH₂)_mCON(R⁴)₂, (CH₂)_mCONHR⁴ and
N-acyl; and/or

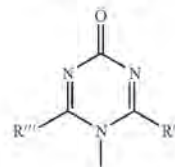
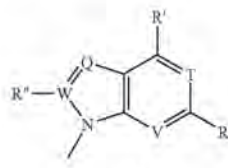
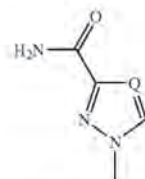
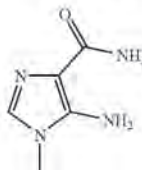
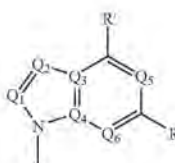
each m is independently 0 or 1; and/or

Base is selected from one of the following:



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-continued



wherein:

each R', R'', R''' and R''' is independently selected from
the group consisting of H, OH, substituted or unsub-
stituted alkyl, substituted or unsubstituted alkenyl,
substituted or unsubstituted alkynyl, cycloalkyl, Br-
vinyl, —O-alkyl, O-alkenyl, O-alkynyl, O-aryl,
O-aralkyl, —O-acyl, β-cycloalkyl, NH₂, NH-alkyl,
N-dialkyl, NH-acyl, N-aryl, N-aralkyl, NH-cy-
cloalkyl, SH, S-alkyl, S-acyl, S-aryl, S-cycloalkyl,
S-aralkyl, F, Cl, Br, I, CN, COOH, CONH₂, CO₂-
alkyl, CONH-alkyl, CON-dialkyl, OH, CF₃, CH₂OH,
(CH₂)_mOH, (CH₂)_mNH₂, (CH₂)_mCOOH, (CH₂)_mCN,
(CH₂)_mNO₂ and (CH₂)_mCONH₂;

W is C—R'' or N;

T and V independently are CH or N;

Q is CH, —CCl, —C Br, —CF, —Cl, —CCN,
—C—COOH, —C—CONH₂, or N;

Q₁ and Q₂ independently are N or C—R;

wherein R is H, alkyl or acyl;

Q₃, Q₄, Q₅ and Q₆ independently are N or CH; and
tautomeric forms thereof.

In another particularly preferred embodiment, a compound
of Formula (VI), or its pharmaceutically acceptable salt or
prodrug thereof, as well as a method for the treatment of a host
infected with a Flaviviridae comprising administering an

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effective treatment amount of compound of Formula (VI) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, in which:

X is O, S, SO or SO₂; and/or

each R⁶ is independently an optionally substituted lower alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted cycloalkyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃, CF₃, CF₂CF₃, CH₂CO₂R⁴, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, or (CH₂)_mCONHR⁴; and/or

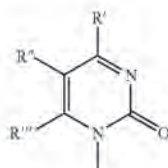
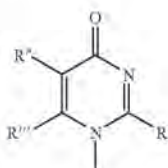
each R⁷ is independently —OH, optionally substituted lower alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted cycloalkyl, —O-alkyl, —O-alkenyl, —O-alkynyl, —O-aralkyl, —O-cycloalkyl-, O-acyl, F, Cl, Br, I, CN, NC, SCN, OCN, NCO, NO₂, NH₂, N₃, NH-acyl, NH-alkyl, N-di-alkyl, NH-alkenyl, NH-alkynyl, NH-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-alkenyl, S-alkynyl, S-aralkyl, S-acyl, S-cycloalkyl, CO₂-alkyl, CONH-alkyl, CON-di-alkyl, CONH-alkenyl, CONH-alkynyl, CONH-aralkyl, CONH-cycloalkyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃, CF₃, CF₂CF₃, CH₂CO₂R⁴, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, (CH₂)_mCONHR⁴, an optionally substituted 3-7 membered carbocyclic, and an optionally substituted 3-7 membered heterocyclic ring having O, S and/or N independently as a heteroatom taken alone or in combination; and/or

R⁹ and R¹⁰ come together to form a spiro compound selected from the group consisting of optionally substituted 3-7 membered spiro carbocyclic or heterocyclic compound having one or more N, O and/or S atoms, said heteroatoms independently taken alone or in combination with one another; and/or

each R⁸ and R¹¹ is independently H, CH₃, CH₂OH, CH₂F, CH₂N₃, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, (CH₂)_mCONHR⁴ and N-acyl; and/or

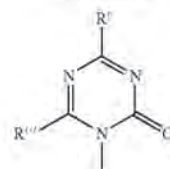
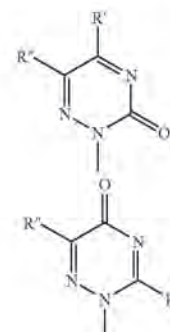
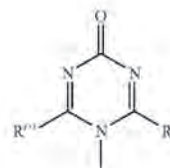
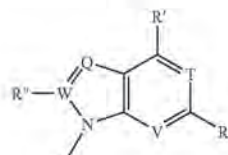
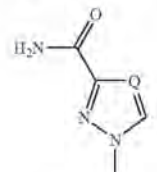
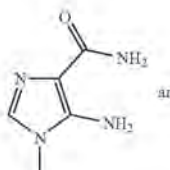
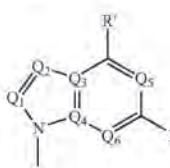
each m is independently 0 or 1; and/or

Base is selected from one of the following:



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-continued



wherein:

each R', R'', R''' and R'''' is independently selected from the group consisting of H, OH, substituted or unsub-

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stituted alkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted alkynyl, cycloalkyl, Br-vinyl, —O-alkyl, O-alkenyl, O-alkynyl, O-aryl, O-aralkyl, —O-acyl, O-cycloalkyl, NH₂, NH-alkyl, N-dialkyl, NH-acyl, N-aryl, N-aralkyl, NH-cy-
 cloalkyl, SH, S-alkyl, S-acyl, S-aryl, S-cycloalkyl, S-aralkyl, F, Cl, Br, I, CN, COOH, CONH₂, CO₂-
 alkyl, CONH-alkyl, CON-dialkyl, OH, CF₃, CH₂OH, (CH₂)_mOH, (CH₂)_mNH₂, (CH₂)_mCOOH, (CH₂)_mCN,
 (CH₂)_mNO₂ and (CH₂)_mCONH₂;

W is C—R'' or N;

T and V independently are CH or N;

Q is CH, —CCl, —CBr, —CF, —Cl, —CCN,
 —C—COOH, —C—CONH₂, or N;

Q₁ and Q₂ independently are N or C—R;

wherein R is H, alkyl or acyl;

Q₃, Q₄, Q₅ and Q₆ independently are N or CH; and
 tautomeric forms thereof.

In another particularly preferred embodiment, a compound of Formula (VI), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, as well as a method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (VI) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, in which:

X is O, S, SO or SO₂; and/or

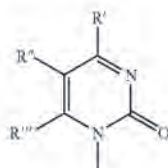
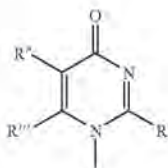
R⁶ and R⁷ come together to form a spiro compound selected from the group consisting of optionally substituted 3-7 membered Spiro carbocyclic or heterocyclic compound having one or more N, O and/or S atoms, said heteroatoms independently taken alone or in combination with one another; and/or

R⁹ and R¹⁰ come together to form a spiro compound selected from the group consisting of optionally substituted 3-7 membered spiro carbocyclic or heterocyclic compound having one or more N, O and/or S atoms, said heteroatoms independently taken alone or in combination with one another; and/or

each R⁸ and R¹¹ is independently H, CH₃, CH₂OH, CH₂F, CH₂N₃, (CH₂)_mCOOH, (CH₂)_mCOOR³, (CH₂)_mCONH₂, (CH₂)_nCON(R⁴)₂, (CH₂)_nCONHR⁴ and N-acyl; and/or

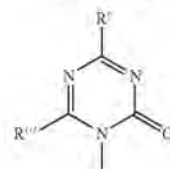
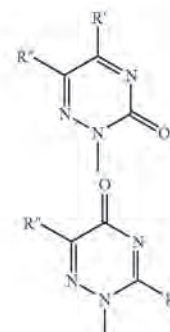
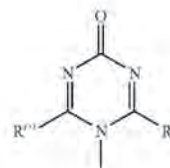
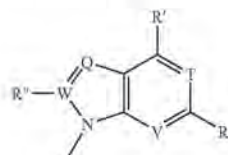
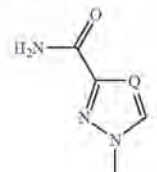
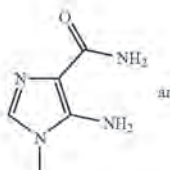
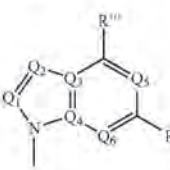
each m is independently 0 or 1; and/or

Base is selected from one of the following:



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-continued



wherein:

each R', R'', R''' and R'''' is independently selected from the group consisting of H, OH, substituted or unsub-

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stituted alkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted alkynyl, cycloalkyl, Br-vinyl, —O-alkyl, O-alkenyl, O-alkynyl, O-aryl, O-aralkyl, —O-acyl, O-cycloalkyl, NH₂, NH-alkyl, N-dialkyl, NH-acyl, N-aryl, N-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-acyl, S-aryl, S-cycloalkyl, S-aralkyl, F, Cl, Br, I, CN, COOH, CONH₂, CO₂-alkyl, CONH-alkyl, CON-dialkyl, OH, CF₃, CH₂OH, (CH₂)_mOH, (CH₂)_mNH₂, (CH₂)_mCOOH, (CH₂)_mCN, (CH₂)_mNO₂ and (CH₂)_mCONH₂;

W is C—R" or N;

T and V independently are CH or N;

Q is CH, —CCl, —CBr, —CF, —Cl, —CCN, —C—COOH, —C—CONH₂, or N;

Q₁ and Q₂ independently are N or C—R;

wherein R is H, alkyl or acyl;

Q₃, Q₄, Q₅ and Q₆ independently are N or CH; and tautomeric forms thereof.

In a particularly preferred embodiment, a compound of Formula (VI), or its pharmaceutically acceptable salt or pro-drug thereof, or a stereoisomeric, tautomeric or polymorphic form thereof, as well as a method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (VI) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, in which:

X is CH₂, CH₂OH, CHF, CF₂, C(Y³)₂, CHCN, C(CN)₂, CHR⁴ or C(R⁴)₂; and/or

each R⁶ is independently an optionally substituted lower alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted cycloalkyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃, CF₃, CF₂CF₃, CH₂CO₂R⁴, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, or (CH₂)_mCONHR⁴; and/or

each R⁷ is independently —OH, optionally substituted lower alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted cycloalkyl, —O-alkyl, —O-alkenyl, —O-alkynyl, —O-aralkyl, —O-cycloalkyl-, O-acyl, F, Cl, Br, I, CN, NC, SCN, OCN, NCO, NO₂, NH₂, N₃, NH-acyl, NH-alkyl, N-dialkyl, NH-alkenyl, NH-alkynyl, NH-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-alkenyl, S-alkynyl, S-aralkyl, S-acyl, S-cycloalkyl, CO₂-alkyl, CONH-alkyl, CON-dialkyl, CONH-alkenyl, CONH-alkynyl, CONH-aralkyl, CONH-cycloalkyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃, CF₃, CF₂CF₃, CH₂CO₂R⁴, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, (CH₂)_mCONHR⁴, an optionally substituted 3-7 membered carbocyclic, and an optionally substituted 3-7 membered heterocyclic ring having O, S and/or N independently as a heteroatom taken alone or in combination; and/or

each R⁹ is independently hydrogen, optionally substituted lower alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted cycloalkyl, —OH, —O-alkyl, —O-alkenyl, —O-alkynyl, —O-aralkyl, —O-cycloalkyl-, O-acyl, F, Cl, Br, I, CN, NC, SCN, OCN, NCO, NO₂, NH₂, N₃, NH-acyl, NH-alkyl, N-dialkyl, NH-alkenyl, NH-alkynyl, NH-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-alkenyl, S-alkynyl, S-aralkyl, S-acyl, S-cycloalkyl, CO₂-alkyl, CONH-alkyl, CON-dialkyl, CONH-alkenyl, CONH-alkynyl, CONH-aralkyl, CONH-cycloalkyl, CH₂OH, CH₂NH₂,

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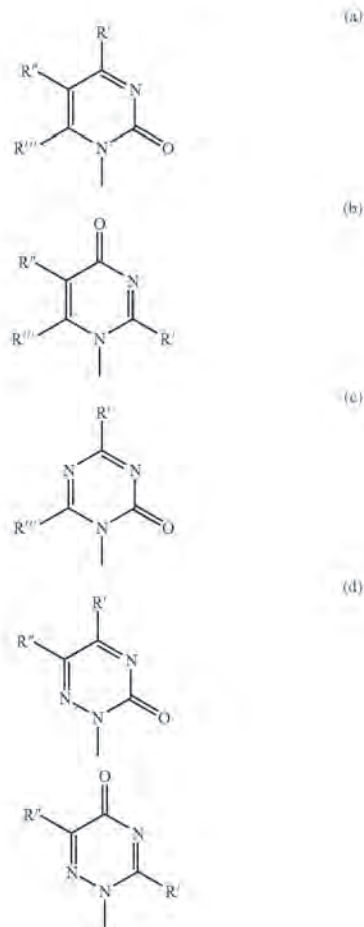
CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃, CF₃, CF₂CF₃, CH₂CO₂R⁴, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, (CH₂)_mCONHR⁴, an optionally substituted 3-7 membered carbocyclic, and an optionally substituted 3-7 membered heterocyclic ring having O, S and/or N independently as a heteroatom taken alone or in combination; and/or

each R¹⁰ is independently hydrogen, an optionally substituted lower alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted cycloalkyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃, CF₃, CF₂CF₃, CH₂CO₂R⁴, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, or (CH₂)_mCONHR⁴; and/or

each R⁸ and R¹¹ is independently H, CH₃, CH₂OH, CH₂F, CH₂N₃, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, (CH₂)_mCONHR⁴ and N-acyl; and/or

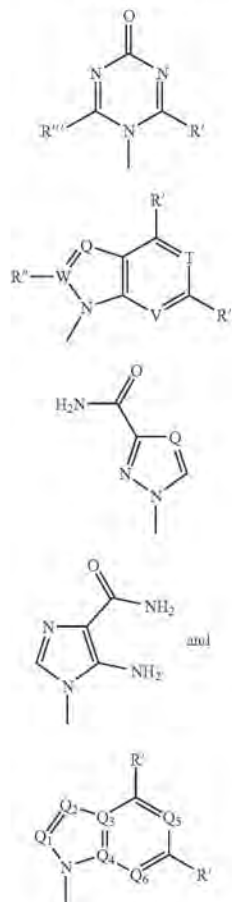
each m is independently 0 or 1; and/or

Base is selected from one of the following:



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-continued



wherein:

each R, R'', R''' and R'''' is independently selected from the group consisting of H, OH, substituted or unsubstituted alkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted alkynyl, cycloalkyl, Br, vinyl, —O-alkyl, O-alkenyl, O-alkynyl, O-aryl, O-aralkyl, —O-acyl, O-cycloalkyl, NH₂, NH-alkyl, N-dialkyl, NH-acyl, N-aryl, N-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-acyl, S-aryl, S-cycloalkyl, S-aralkyl, F, Cl, Br, I, CN, COOH, CONH₂, CO₂-alkyl, CONH-alkyl, CON-dialkyl, OH, CF₃, CH₂OH, (CH₂)_mOH, (CH₂)_mNH₂, (CH₂)_mCOOH, (CH₂)_mCN, (CH₂)_mNO₂ and (CH₂)_mCONH₂;

W is C—R'' or N;

T and V independently are CH or N;

Q is CH, —CCl, —CBr, —CF₃, —Cl, —CCN, —C—COOH, —C—CONH₂, or N;

Q₁ and Q₂ independently are N or C—R;

Q₃, Q₄, Q₅ and Q₆ independently are N or CH; and tautomeric forms thereof.

In a particularly preferred alternative embodiment, a compound of Formula (VI), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, as well as a method for the treatment of a host infected with a Flaviviridae comprising administering an

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effective treatment amount of compound of Formula (VI) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, in which:

X is CH₂, CH₂OH, CHF, CF₂, C(Y³)₂, CHCN, C(CN)₂, CHR⁴ or C(R⁴)₂; and/or

R⁶ and R⁷ come together to form a spiro compound selected from the group consisting of optionally substituted 3-7 membered spiro carbocyclic or heterocyclic compound having one or more N, O and/or S atoms, said heteroatoms independently taken alone or in combination with one another; and/or

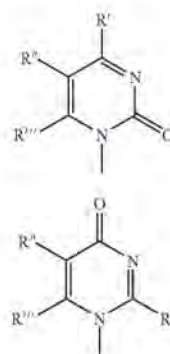
each R⁸ is independently hydrogen, optionally substituted lower alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted cycloalkyl, —OH, —O-alkyl, —O-alkenyl, —O-alkynyl, —O-aralkyl, —O-cycloalkyl-, O-acyl, F, Cl, Br, I, CN, NC, SCN, OCN, NCO, NO₂, NH₂, N₃, NH-acyl, NH-alkyl, N-dialkyl, NH-alkenyl, NH-alkynyl, NH-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-alkenyl, S-alkynyl, S-aralkyl, S-acyl, S-cycloalkyl, CO₂-alkyl, CONH-alkyl, CON-dialkyl, CONH-alkenyl, CONH-alkynyl, CONH-aralkyl, CONH-cycloalkyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃, CF₃, CF₂CF₃, CH₂CO₂R⁴, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, (CH₂)_mCONHR⁴, an optionally substituted 3-7 membered carbocyclic, and an optionally substituted 3-7 membered heterocyclic ring having O, S and/or N independently as a heteroatom taken alone or in combination; and/or

each R¹⁰ is independently hydrogen, an optionally substituted lower alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted cycloalkyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃, CF₃, CF₂CF₃, CH₂CO₂R⁴, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, or (CH₂)_mCONHR⁴; and/or

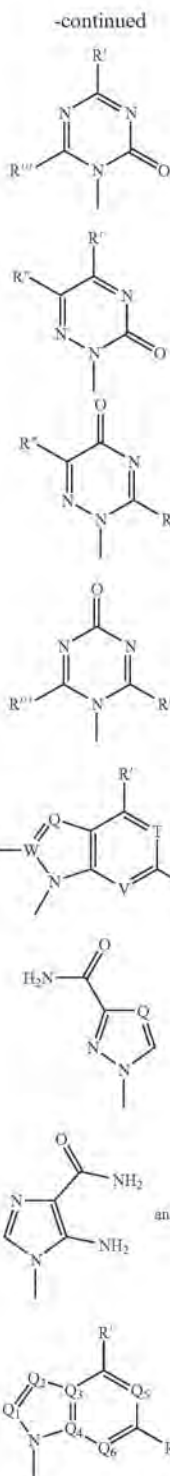
each R⁸ and R¹¹ is independently H, CH₃, CH₂OH, CH₂F, CH₂N₃, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, (CH₂)_mCONHR⁴ and N-acyl; and/or

each m is independently 0 or 1; and/or

Base is selected from one of the following:



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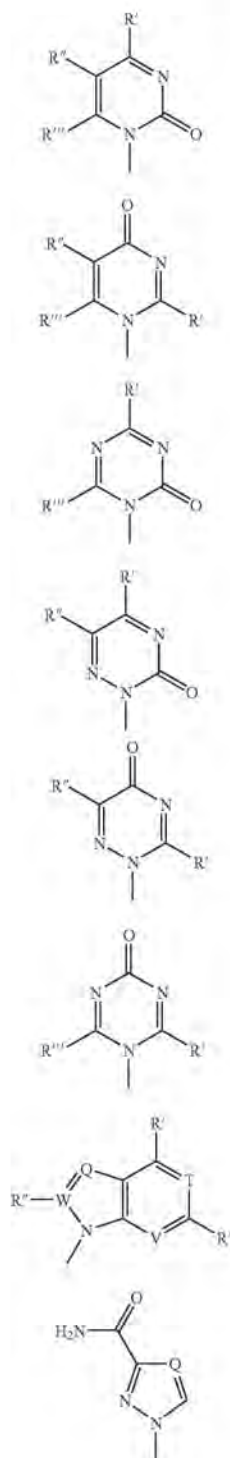
wherein:
each R', R'', R''' and R'''' is independently selected from the group consisting of H, OH, substituted or unsub-

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- stituted alkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted alkynyl, cycloalkyl, Br-vinyl, —O-alkyl, O-alkenyl, O-alkynyl, O-aryl, O-aralkyl, —O-acyl, O-cycloalkyl, NH₂, NH-alkyl, N-dialkyl, NH-acyl, N-aryl, N-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-acyl, S-aryl, S-cycloalkyl, S-aralkyl, F, Cl, Br, I, CN, COOH, CONH₂, CO₂-alkyl, CONH-alkyl, CON-dialkyl, OH, CF₃, CH₂OH, (CH₂)_mOH, (CH₂)_mNH₂, (CH₂)_mCOOH, (CH₂)_mCN, (CH₂)_mNO₂ and (CH₂)_mCONH₂;
- W is C—R'' or N;
- T and V independently are CH or N;
- Q is CH, —CCl, —CBr, —CF, —Cl, —CCN, —C—COOH, —C—CONH₂, or N;
- Q₁ and Q₂ independently are N or C—R;
- wherein R is H, alkyl or acyl;
- Q₃, Q₄, Q₅ and Q₆ independently are N or CH; and tautomeric forms thereof.
- In another particularly preferred embodiment, a compound of Formula (VI), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, as well as a method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (VI) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, in which:
- X is CH₂, CH₂OH, CHF, CF₂, C(Y³)₂, CHCN, C(CN)₂, CHR⁴ or C(R⁴)₂; and/or
- each R⁶ is independently an optionally substituted lower alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted cycloalkyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃, CF₃, CF₂CF₃, CH₂CO₂R⁴, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, or (CH₂)_mCONHR⁴; and/or
- each R⁷ is independently —OH, optionally substituted lower alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted cycloalkyl, —O-alkyl, —O-alkenyl, —O-alkynyl, —O-aralkyl, —O-cycloalkyl, O-acyl, F, Cl, Br, I, CN, NC, SCN, OCN, NCO, NO₂, NH₂, N₃, NH-acyl, NH-alkyl, N-dialkyl, NH-alkenyl, NH-alkynyl, NH-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-alkenyl, S-alkynyl, S-aralkyl, S-acyl, S-cycloalkyl, CO₂-alkyl, CONH-alkyl, CON-dialkyl, CONH-alkenyl, CONH-alkynyl, CONH-aralkyl, CONH-cycloalkyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃, CF₃, CF₂CF₃, CH₂CO₂R⁴, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, (CH₂)_mCONHR⁴, an optionally substituted 3-7 membered carbocyclic, and an optionally substituted 3-7 membered heterocyclic ring having O, S and/or N independently as a heteroatom taken alone or in combination; and/or
- R⁹ and R¹⁰ come together to form a spiro compound selected from the group consisting of optionally substituted 3-7 membered spiro carbocyclic or heterocyclic compound having one or more N, O and/or S atoms, said heteroatoms independently taken alone or in combination with one another; and/or
- each R⁸ and R¹¹ is independently H, CH₃, CH₂OH, CH₂F, CH₂N₃, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, (CH₂)_mCONHR⁴ and N-acyl; and/or

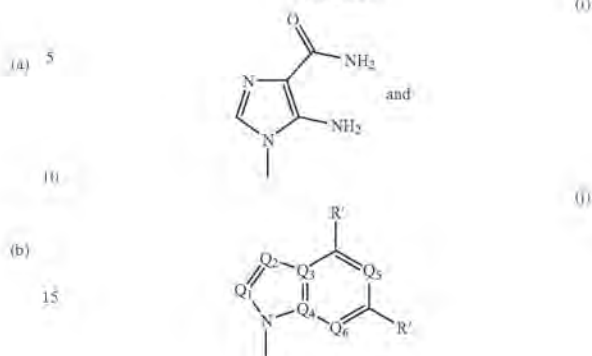
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each m is independently 0 or 1; and/or
Base is selected from one of the following:



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-continued



wherein:

each R', R'', R''' and R'''' is independently selected from the group consisting of H, OH, substituted or unsubstituted alkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted alkynyl, cycloalkyl, Br-vinyl, —O-alkyl, O-alkenyl, O-alkynyl, O-aryl, O-aralkyl, —O-acyl, O-cycloalkyl, NH₂, NH-alkyl, N-dialkyl, NH-acyl, N-aryl, N-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-acyl, S-aryl, S-cycloalkyl, S-aralkyl, F, Cl, Br, I, CN, COOH, CONH₂, CO₂-alkyl, CONH-alkyl, CON-dialkyl, OH, CF₃, CH₂OH, (CH₂)_mOH, (CH₂)_mNH₂, (CH₂)_mCOOH, (CH₂)_mCN, (CH₂)_mNO₂ and (CH₂)_mCONH₂;

W is C—R'' or N;

T and V independently are CH or N;

Q is CH, —CCl, —CBr, —CF, —Cl, —CCN, —C—COOH, —C—CONH₂, or N;Q₁ and Q₂ independently are N or C—R;

wherein R is H, alkyl or acyl;

Q₃, Q₄, Q₅ and Q₆ independently are N or CH; and tautomeric forms thereof.

In another particularly preferred embodiment, a compound of Formula (VI), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, as well as a method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (VI) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, in which:

X is CH₂, CH₂OH, CHF, CF₂, C(Y³)₂, CHCN, C(CN)₂, CHR⁴ or C(R⁴)₂; and/or

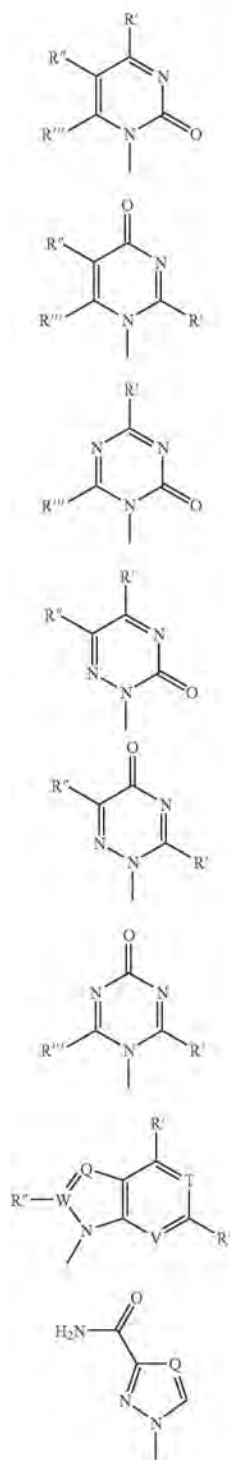
R⁶ and R⁷ come together to form a spiro compound selected from the group consisting of optionally substituted 3-7 membered Spiro carbocyclic or heterocyclic compound having one or more N, O and/or S atoms, said heteroatoms independently taken alone or in combination with one another; and/or

R⁹ and R¹⁰ come together to form a spiro compound selected from the group consisting of optionally substituted 3-7 membered spiro carbocyclic or heterocyclic compound having one or more N, O and/or S atoms, said heteroatoms independently taken alone or in combination with one another; and/or

each R⁸ and R¹¹ is independently H, CH₃, CH₂OH, CH₂F, CH₂N₃, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, (CH₂)_mCONHR⁴ and N-acyl; and/or

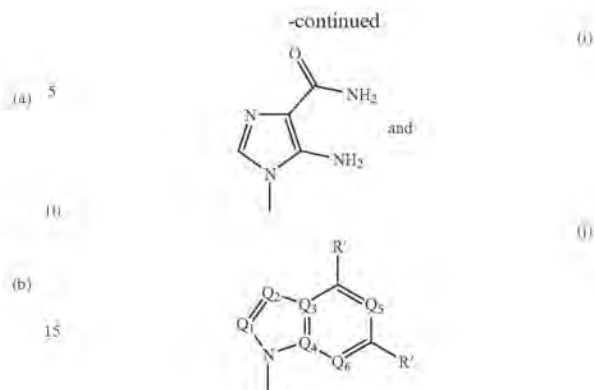
79

each m is independently 0 or 1; and/or
Base is selected from one of the following:



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-continued



wherein:

each R', R'', R''' and R'''' is independently selected from the group consisting of H, OH, substituted or unsubstituted alkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted alkynyl, cycloalkyl, Br-vinyl, —O-alkyl, O-alkenyl, O-alkynyl, O-aryl, O-aralkyl, —O-acyl, O-cycloalkyl, NH₂, NH-alkyl, N-dialkyl, NH-acyl, N-aryl, N-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-acyl, S-aryl, S-cycloalkyl, S-aralkyl, F, Cl, Br, I, CN, COOH, CONH₂, CO₂-alkyl, CONH-alkyl, CON-dialkyl, OH, CF₃, CH₂OH, (CH₂)_mOH, (CH₂)_mNH₂, (CH₂)_mCOOH, (CH₂)_mCN, (CH₂)_mNO₂ and (CH₂)_mCONH₂;

W is C—R'' or N;

T and V independently are CH or N;

Q is CH, —CCl, —CBr, —CF, —Cl, —CCN, —C—COOH, —C—CONH₂, or N;

Q₁ and Q₂ independently are N or C—R;

wherein R is H, alkyl or acyl;

Q₃, Q₄, Q₅ and Q₆ independently are N or CH; and
tautomeric forms thereof.

In a particularly preferred embodiment, a compound of Formula (VII), or its pharmaceutically acceptable salt or prodrug thereof, or a stereoisomeric, tautomeric or polymorphic form thereof, as well as a method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (VII) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, in which:

X* is CH, CF, CY³ or CR⁴; and/or

each R⁶ is independently an optionally substituted lower alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted cycloalkyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃, CF₃, CF₂CF₃, CH₂CO₂R⁴, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, or (CH₂)_mCONHR⁴; and/or

each R⁷ is independently —OH, optionally substituted lower alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted cycloalkyl, —O-alkyl, —O-alkenyl, —O-alkynyl, —O-aralkyl, —O-cycloalkyl-, O-acyl, F, Cl, Br, I, CN, NC, SCN, OCN, NCO, NO₂, NH₂, N₃, NH-acyl, NH-alkyl, N-dialkyl, NH-alkenyl, NH-alkynyl, NH-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-alkenyl, S-alkynyl, S-aralkyl, S-acyl, S-cycloalkyl, CO₂-alkyl, CONH-alkyl, CON-

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dialkyl, CONH-alkenyl, CONH-alkynyl, CONH-aralkyl, CONH-cycloalkyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃, CF₃, CF₂CF₃, CH₂CO₂R⁴, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, (CH₂)_mCONHR⁴, an optionally substituted 3-7 membered carbocyclic, and an optionally substituted 3-7 membered heterocyclic ring having O, S and/or N independently as a heteroatom taken alone or in combination; and/or

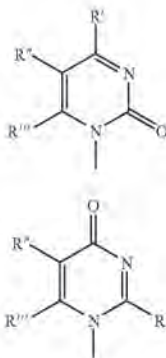
each R⁹ is independently hydrogen, optionally substituted lower alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted cycloalkyl, —OH, —O-alkyl, —O-alkenyl, —O-alkynyl, —O-aralkyl, —O-cycloalkyl-, O-acyl, F, Cl, Br, I, CN, NC, SCN, OCN, NCO, NO₂, NH₂, N₃, NH-acyl, NH-alkyl, N-dialkyl, NH-alkenyl, NH-alkynyl, NH-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-alkenyl, S-alkynyl, S-aralkyl, S-acyl, S-cycloalkyl, CO₂-alkyl, CONH-alkyl, CON-dialkyl, CONH-alkenyl, CONH-alkynyl, CONH-aralkyl, CONH-cycloalkyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃, CF₃, CF₂CF₃, CH₂CO₂R⁴, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, (CH₂)_mCONHR⁴, an optionally substituted 3-7 membered carbocyclic, and an optionally substituted 3-7 membered heterocyclic ring having O, S and/or N independently as a heteroatom taken alone or in combination; and/or

each R¹⁰ is independently hydrogen, an optionally substituted lower alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted cycloalkyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃, CF₃, CF₂CF₃, CH₂CO₂R⁴, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, or (CH₂)_mCONHR⁴; and/or

each R⁸ and R¹¹ is independently H, CH₃, CH₂OH, CH₂F, CH₂N₃, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, (CH₂)_mCONHR⁴ and N-acyl; and/or

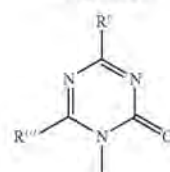
each m is independently 0 or 1; and/or

Base is selected from one of the following:

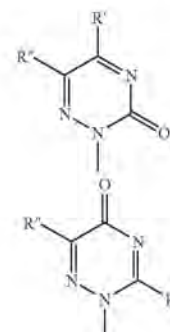


82

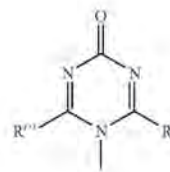
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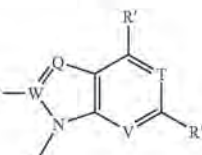
(e)



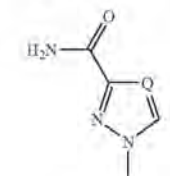
(d)



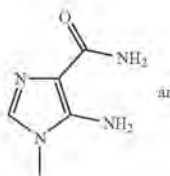
(f)



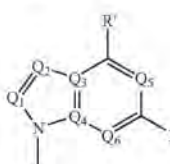
(g)



(h)



(i)



(j)

wherein:

each R', R'', R''' and R'''' is independently selected from the group consisting of H, OH, substituted or unsub-

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stituted alkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted alkynyl, cycloalkyl, Br-vinyl, —O-alkyl, O-alkenyl, O-alkynyl, O-aryl, O-aralkyl, —O-acyl, O-cycloalkyl, NH₂, NH-alkyl, N-dialkyl, NH-acyl, N-aryl, N-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-acyl, S-aryl, S-cycloalkyl, S-aralkyl, F, Cl, Br, I, CN, COOH, CONH₂, CO₂-alkyl, CONH-alkyl, CON-dialkyl, OH, CF₃, CH₂OH, (CH₂)_mOH, (CH₂)_mNH₂, (CH₂)_mCOOH, (CH₂)_mCN, (CH₂)_mNO₂ and (CH₂)_mCONH₂;

W is C—R'' or N;

T and V independently are CH or N;

Q is —CH, —CCl, —CBr, —CF, —Cl, —CCN, —C—COOH, —C—CONH₂, or N;

Q₁ and Q₂ independently are N or C—R;

wherein R is H, alkyl or acyl;

Q₃, Q₄, Q₅ and Q₆ independently are N or CH; and tautomeric forms thereof.

In a particularly preferred alternative embodiment, a compound of Formula (VII), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, as well as a method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (VII) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, in which:

X* is CH, CF, CY³ or CR⁴; and/or

R⁶ and R⁷ come together to form a spiro compound selected from the group consisting of optionally substituted 3-7 membered spiro carbocyclic or heterocyclic compound having one or more N, O and/or S atoms, said heteroatoms independently taken alone or in combination with one another; and/or

each R⁹ is independently hydrogen, optionally substituted lower alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted cycloalkyl, —OH, —O-alkyl, —O-alkenyl, —O-alkynyl, —O-aralkyl, —O-cycloalkyl-, O-acyl, F, Cl, Br, I, CN, NC, SCN, OCN, NCO, NO₂, NH₂, N₃, NH-acyl, NH-alkyl, N-dialkyl, NH-alkenyl, NH-alkynyl, NH-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-alkenyl, S-alkynyl, S-aralkyl, S-acyl, S-cycloalkyl, CO₂-alkyl, CONH-alkyl, CON-dialkyl, CONH-alkenyl, CONH-alkynyl, CONH-aralkyl, CONH-cycloalkyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃, CF₃, CF₂CF₃, CH₂CO₂R⁴, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, (CH₂)_mCONHR⁴, an optionally substituted 3-7 membered carbocyclic, and an optionally substituted 3-7 membered heterocyclic ring having O, S and/or N independently as a heteroatom taken alone or in combination; and/or

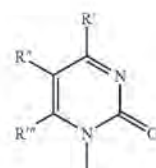
each R¹⁰ is independently hydrogen, an optionally substituted lower alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted cycloalkyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃, CF₃, CF₂CF₃, CH₂CO₂R⁴, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, or (CH₂)_mCONHR⁴; and/or

each R⁸ and R¹¹ is independently H, CH₃, CH₂OH, CH₂F, CH₂N₃, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, (CH₂)_mCONHR⁴ and N-acyl; and/or

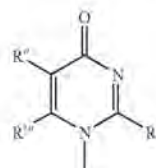
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each m is independently 0 or 1; and/or

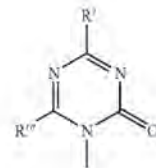
Base is selected from one of the following:



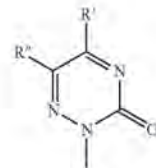
(a)



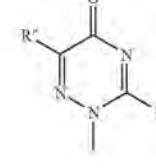
(b)



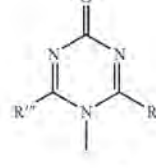
(c)



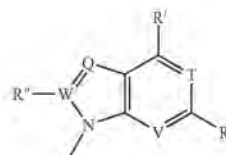
(d)



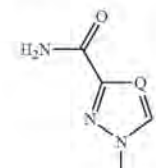
(e)



(f)

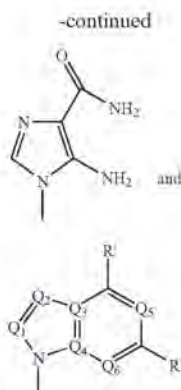


(g)



(h)

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wherein:

each R', R'', R''' and R'''' is independently selected from the group consisting of H, OH, substituted or unsubstituted alkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted alkynyl, cycloalkyl, Br-vinyl, —O-alkyl, O-alkenyl, O-alkynyl, O-aryl, O-aralkyl, —O-acyl, O-cycloalkyl, NH₂, NH-alkyl, N-dialkyl, NH-acyl, N-aryl, N-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-acyl, S-aryl, S-cycloalkyl, S-aralkyl, F, Cl, Br, I, CN, COOH, CONH₂, CO₂-alkyl, CONH-alkyl, CON-dialkyl, OH, CF₃, CH₂OH, (CH₂)_mOH, (CH₂)_mNH₂, (CH₂)_mCOOH, (CH₂)_mCN, (CH₂)_mNO₂ and (CH₂)_mCONH₂;

W is C—R'' or N;

T and V independently are CH or N;

Q is CH, —CCl, —CBr, —CF, —Cl, —CCN, —C—COOH, —C—CONH₂, or N;

Q₁ and Q₂ independently are N or C—R;

R is H, alkyl or acyl;

Q₃, Q₄, Q₅ and Q₆ independently are N or CH; and tautomeric forms thereof.

In another particularly preferred embodiment, a compound of Formula (VII), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, as well as a method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, in which:

X* is CH, CF, CY³ or CR⁴; and/or

each R⁶ is independently an optionally substituted lower alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted cycloalkyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃, CF₃, CF₂CF₃, CH₂CO₂R⁴, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, or (CH₂)_mCONHR⁴; and/or

each R⁷ is independently —OH, optionally substituted lower alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted cycloalkyl, —O-alkyl, —O-alkenyl, —O-alkynyl, —O-aralkyl, —O-cycloalkyl-, O-acyl, F, Cl, Br, I, CN, NC, SCN, OCN, NCO, NO₂, NH₂, N₃, NH-acyl, NH-alkyl, N-dialkyl, NH-alkenyl, NH-alkynyl, NH-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-alkenyl, S-alkynyl, S-aralkyl, S-acyl, S-cycloalkyl, CO₂-alkyl, CONH-alkyl, CON-

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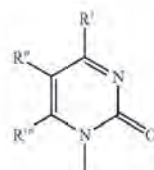
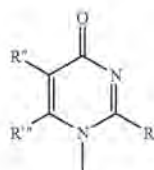
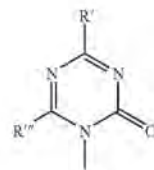
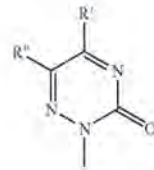
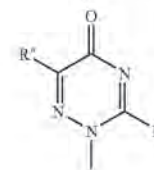
dialkyl, CONH-alkenyl, CONH-alkynyl, CONH-aralkyl, CONH-cycloalkyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃, CF₃, CF₂CF₃, CH₂CO₂R⁴, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, (CH₂)_mCONHR⁴, an optionally substituted 3-7 membered carbocyclic, and an optionally substituted 3-7 membered heterocyclic ring having O, S and/or N independently as a heteroatom taken alone or in combination; and/or

R⁹ and R¹⁰ come together to form a spiro compound selected from the group consisting of optionally substituted 3-7 membered spiro carbocyclic or heterocyclic compound having one or more N, O and/or S atoms, said heteroatoms independently taken alone or in combination with one another; and/or

each R⁶ and R¹¹ is independently H, CH₃, CH₂OH, CH₂F, CH₂N₃, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, (CH₂)_mCONHR⁴ and N-acyl; and/or

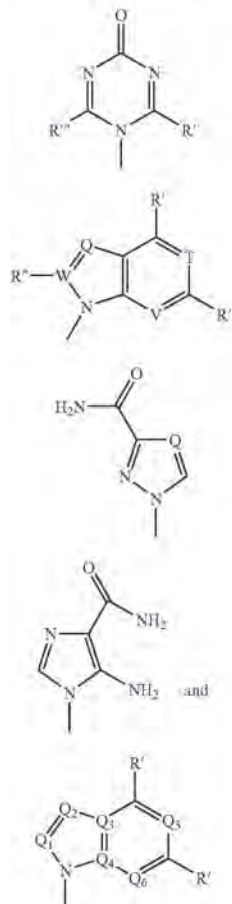
each m is independently 0 or 1; and/or

Base is selected from one of the following:



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-continued



wherein:

each R¹, R², R³ and R⁴ is independently selected from the group consisting of H, OH, substituted or unsubstituted alkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted alkynyl, cycloalkyl, Br-vinyl, —O-alkyl, O-alkenyl, O-alkynyl, O-aryl, O-aralkyl, —O-acyl, O-cycloalkyl, NH₂, NH-alkyl, N-dialkyl, NH-acyl, N-aryl, N-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-acyl, S-aryl, S-cycloalkyl, S-aralkyl, F, Cl, Br, I, CN, COOH, CONH₂, CO₂-alkyl, CONH-alkyl, CON-dialkyl, OH, CF₃, CH₂OH, (CH₂)_mOH, (CH₂)_mNH₂, (CH₂)_mCOOH, (CH₂)_mCN, (CH₂)_mNO₂ and (CH₂)_mCONH₂;

W is C—R⁵ or N;

T and V independently are CH or N;

Q is CH, —CCl, —CBr, —CF, —Cl, —CCN, —C—COOH, —C—CONH₂, or N;Q₁ and Q₂ independently are N or C—R;

R is H, alkyl or acyl;

Q₃, Q₄, Q₅ and Q₆ independently are N or CH; and tautomeric forms thereof.

In another particularly preferred embodiment, a compound of Formula (VII), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, as well as a method for the treatment of a host

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infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (VII) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, in which:

X* is CH, CF, CY³ or CR⁴; and/or

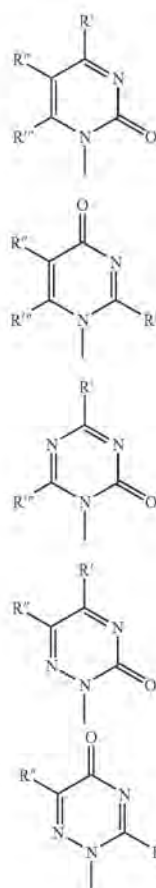
R⁶ and R⁷ come together to form a Spiro compound selected from the group consisting of optionally substituted 3-7 membered spiro carbocyclic or heterocyclic compound having one or more N, O and/or S atoms, said heteroatoms independently taken alone or in combination with one another; and/or

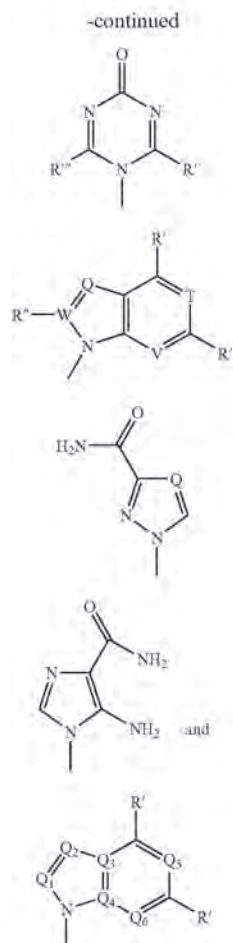
R⁹ and R¹⁰ come together to form a spiro compound selected from the group consisting of optionally substituted 3-7 membered spiro carbocyclic or heterocyclic compound having one or more N, O and/or S atoms, said heteroatoms independently taken alone or in combination with one another; and/or

each R⁸ and R¹¹ is independently H, CH₃, CH₂OH, CH₂F, CH₂N₃, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, (CH₂)_mCONHR⁴ and N-acyl; and/or

each m is independently 0 or 1; and/or

Base is selected from one of the following:





wherein:

each R¹, R², R³ and R⁴ is independently selected from the group consisting of H, OH, substituted or unsubstituted alkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted alkynyl, cycloalkyl, Br-vinyl, —O-alkyl, O-alkenyl, O-alkynyl, O-aryl, O-aralkyl, —O-acyl, O-cycloalkyl, NH₂, NH-alkyl, N-dialkyl, NH-acyl, N-aryl, N-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-acyl, S-aryl, S-cycloalkyl, S-aralkyl, F, Cl, Br, I, CN, COOH, CONH₂, CO₂-alkyl, CONH-alkyl, CON-dialkyl, OH, CF₃, CH₂OH, (CH₂)_mOH, (CH₂)_mNH₂, (CH₂)_mCOOH, (CH₂)_mCN, (CH₂)_mNO₂ and (CH₂)_mCONH₂;

W is C—R⁵ or N;

T and V independently are CH or N;

Q is CH, —CCl, —CBr, —CF, —Cl, —CCN, —C—COOH, —C—CONH₂, or N;

Q₁ and Q₂ independently are N or C—R;

R is H, alkyl or acyl;

Q₃, Q₄, Q₅ and Q₆ independently are N or CH; and tautomeric forms thereof.

In a first subembodiment, the compound of Formula (VI), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, and the method for the treatment of a host infected with a Flaviviridae

- (f) comprising administering an effective treatment amount of compound of Formula (VI) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, in which: (1) R¹ is independently H or phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered in vivo is capable of providing a compound wherein R¹ is independently H or phosphate; (2) R⁶ is alkyl; (3) R⁷ and R⁹ are independently OR², alkyl, alkenyl, alkynyl, Br-vinyl, O-alkenyl, chlorine, bromine, iodine, NO₂, amino, lower alkylamino or di(lower alkyl) amino; (4) R⁸ and R¹⁰ are independently H, alkyl (including lower alkyl), chlorine, bromine, or iodine; (5) X is O, S, SO₂ or CH₂; (6) W⁴ is CX³; and (7) X³ is CH₃, CF₃ or CH₂CH₃.

- In a second subembodiment, the compound of Formula (VI), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, and the method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (VI) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, in which: (1) R¹ is independently H or phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered in vivo is capable of providing a compound wherein R¹ is independently H or phosphate; (2) R⁶ is alkyl, alkenyl, alkynyl, Br-vinyl, hydroxy, O-alkyl, O-alkenyl, chloro, bromo, fluoro, iodo, NO₂, amino, lower alkylamino, or di(lower alkyl)amino; (3) R⁷ and R⁹ are independently OR²; (4) R⁸ and R¹⁰ are independently H, alkyl (including lower alkyl), chlorine, bromine, or iodine; (5) X is O, S, SO₂ or CH₂; (6) W⁴ is CX³; and (7) X³ is CH₃, CF₃ or CH₂CH₃.

- In a third subembodiment, the compound of Formula (VI), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, and the method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (VI) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, in which: (1) R¹ is independently H or phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered in vivo is capable of providing a compound wherein R¹ is independently H or phosphate; (2) R⁶ is alkyl, alkenyl, alkynyl, Br-vinyl, hydroxy, O-alkyl,

O-alkenyl, chloro, bromo, fluoro, iodo, NO₂, amino, lower alkylamino or di(lower alkyl)amino; (3) R⁷ and R⁹ are independently OR², alkyl, alkenyl, alkynyl, Br-vinyl, O-alkenyl, chlorine, bromine, iodine, NO₂, amino, lower alkylamino or di(lower alkyl)amino; (4) R⁸ and R¹⁰ are H; (5) X is O, S, SO₂ or CH₂; (6) W⁴ is CX³; and (7) X³ is CH₃, CF₃ or CH₂CH₃.

In a fourth subembodiment, the compound of Formula (VI), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, and the method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (VI) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, in which: (1) R¹ is independently H or phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered in vivo is capable of providing a compound wherein R¹ is independently H or phosphate; (2) R⁶ is alkyl, alkenyl, alkynyl, Br-vinyl, hydroxy, O-alkyl, O-alkenyl, chloro, bromo, fluoro, iodo, NO₂, amino, lower alkylamino, or di(lower alkyl)amino; (3) R⁷ and R⁹ are independently OR², alkyl, alkenyl, alkynyl, Br-vinyl, O-alkenyl, chlorine, bromine, iodine, NO₂, amino, lower alkylamino, or di(lower alkyl)amino; (4) R⁸ and R¹⁰ are independently H, alkyl (including lower alkyl), chlorine, bromine, or iodine; (5) X is O; (6) W⁴ is CX³; and (7) X³ is CH₃, CF₃ or CH₂CH₃.

In a fifth subembodiment, the compound of Formula (VI), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, and the method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (VI) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, in which: (1) R¹ is independently H or phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered in vivo is capable of providing a compound wherein R¹ is independently H or phosphate; (2) R⁶ is alkyl; (3) R⁷ and R⁹ are independently OR²; (4) R⁸ and R¹⁰ are independently H, alkyl (including lower alkyl), chlorine, bromine or iodine; (5) X is O, S, SO₂ or CH₂; (6) W⁴ is CX³; and (7) X³ is CH₃, CF₃ or CH₂CH₃.

In a sixth subembodiment, the compound of Formula (VI), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, and the method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (VI) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, in which: (1) R¹ is independently H or phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl

(including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered in vivo is capable of providing a compound wherein R¹ is independently H or phosphate; (2) R⁶ is alkyl; (3) R⁷ and R⁹ are independently OR², alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, O-alkenyl, chlorine, bromine, iodine, NO₂, amino, lower alkylamino, or di(lower alkyl)amino; (4) R⁸ and R¹⁰ are H; (5) X is O, S, SO₂, or CH₂; (6) W⁴ is CX³; and (7) X³ is CH₃, CF₃ or CH₂CH₃.

In a seventh subembodiment, the compound of Formula (VI), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, and the method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (VI) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, in which: (1) R¹ is independently H or phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered in vivo is capable of providing a compound wherein R¹ is independently H or phosphate; (2) R⁶ is alkyl; (3) R⁷ and R⁹ are independently OR², alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, O-alkenyl, chlorine, bromine, iodine, NO₂, amino, lower alkylamino or di(lower alkyl)amino; (4) R⁸ and R¹⁰ are independently H, alkyl (including lower alkyl), chlorine, bromine or iodine; (5) X is O; (6) W⁴ is CX³; and (7) X³ is CH₃, CF₃ or CH₂CH₃.

In an eighth subembodiment, the compound of Formula (VI), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, and the method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (VI) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, in which: (1) R¹ is independently H or phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered in vivo is capable of providing a compound wherein R¹ is independently H or phosphate; (2) R⁶ is alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, hydroxy, O-alkyl, O-alkenyl, chloro, bromo, fluoro, iodo, NO₂, amino, lower alkylamino or di(lower alkyl)amino; (3) R⁷ and R⁹ are independently OR²; (4) R⁸ and R¹⁰ are hydrogen; (6) X is O, S, SO₂ or CH₂; (6) W⁴ is CX³; and (7) X³ is CH₃, CF₃ or CH₂CH₃.

In a ninth subembodiment, the compound of Formula (VI), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, and the method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (VI) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, in which: (1) R^1 is independently H or phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered in vivo is capable of providing a compound wherein R^1 is independently H or phosphate; (2) R^6 is alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, hydroxy, O-alkyl, O-alkenyl, chloro, bromo, fluoro, iodo, NO_2 , amino, lower alkylamino or di(lower alkyl)amino; (3) R^7 and R^9 are independently OR^2 ; (4) R^8 and R^{10} are independently H, alkyl (including lower alkyl), chlorine, bromine or iodine; (5) X is O; (6) W^4 is CX^3 ; and (7) X^3 is CH_3 , CF_3 or CH_2CH_3 .

In a tenth subembodiment, the compound of Formula (VI), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, and the method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (VI) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, in which: (1) R^1 is independently H or phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered in vivo is capable of providing a compound wherein R^1 is independently H or phosphate; (2) R^6 is alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, hydroxy, O-alkyl, O-alkenyl, chloro, bromo, fluoro, iodo, NO_2 , amino, lower alkylamino or di(lower alkyl)amino; (3) R^7 and R^9 are independently OR^2 , alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, O-alkenyl, chlorine, bromine, iodine, NO_2 , amino, lower alkylamino, or di(lower alkyl)amino; (4) R^8 and R^{10} are hydrogen; (5) X is O; (6) W^4 is CX^3 ; and (7) X^3 is CH_3 , CF_3 or CH_2CH_3 .

In an eleventh subembodiment, the compound of Formula (VI), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, and the method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (VI) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, in which: (1) R^1 is independently H or phosphate; (2) R^6 is alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, hydroxy, O-alkyl, O-alkenyl, chloro, bromo, fluoro, iodo, NO_2 , amino, lower alkylamino or di(lower alkyl)amino; (3) R^7 and R^9 are inde-

pendently OR^2 ; (4) R^8 and R^{10} are hydrogen; (5) X is O, S, SO_2 or CH_2 ; (6) W^4 is CX^3 ; and (7) X^3 is CH_3 , CF_3 or CH_2CH_3 .

In a twelfth subembodiment, the compound of Formula (VI), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, and the method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (VI) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, in which: (1) R^1 is independently H or phosphate; (2) R^6 is alkyl; (3) R^7 and R^9 are independently OR^2 ; (4) R^8 and R^{10} are hydrogen; (5) X is O, S, SO_2 , or CH_2 ; (6) W^4 is CX^3 ; and (7) X^3 is CH_3 , CF_3 or CH_2CH_3 .

In a thirteenth subembodiment, the compound of Formula (VI), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, and the method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (VI) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, in which: (1) R^1 is independently H or phosphate; (2) R^6 is alkyl; (3) R^7 and R^9 are independently OR^2 ; (4) R^8 and R^{10} are independently H, alkyl (including lower alkyl), chlorine, bromine, or iodine; (5) X is O; (6) W^4 is CX^3 ; and (7) X^3 is CH_3 , CF_3 or CH_2CH_3 .

In a fourteenth subembodiment, the compound of Formula (VI), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, and the method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (VI) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, in which: (1) R^1 is independently H or phosphate; (2) R^6 is alkyl; (3) R^7 and R^9 are independently OR^2 , alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, O-alkenyl, chlorine, bromine, iodine, NO_2 , amino, lower alkylamino or di(lower alkyl)amino; (4) R^8 and R^{10} are hydrogen; (5) X is O; (6) W^4 is CX^3 ; and (7) X^3 is CH_3 , CF_3 or CH_2CH_3 .

In even more preferred subembodiments, the compound of Formula (VI), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, and the method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (VI) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, in which:

(1) Base is 8-methyladenine; (2) R^1 is hydrogen; (3) R^6 is methyl; (4) R^7 and R^9 are hydroxyl; (5) R^8 and R^{10} are hydrogen; and (6) X is O;

(1) Base is 8-methylguanine; (2) R^1 is hydrogen; (3) R^6 is methyl; (4) R^7 and R^9 are hydroxyl; (5) R^8 and R^{10} are hydrogen; and (6) X is O;

(1) Base is 6-methylcytosine; (2) R^1 is hydrogen; (3) R^6 is methyl; (4) R^7 and R^9 are hydroxyl; (5) R^8 and R^{10} are hydrogen; and (6) X is O;

(1) Base is 6-methylthymidine; (2) R^1 is hydrogen; (3) R^6 is methyl; (4) R^7 and R^9 are hydroxyl; (5) R^8 and R^{10} are hydrogen; and (6) X is O;

(1) Base is 6-methyluracil; (2) R^1 is hydrogen; (3) R^6 is methyl; (4) R^7 and R^9 are hydroxyl; (5) R^8 and R^{10} are hydrogen; and (6) X is O;

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(1) Base is 8-methyladenine; (2) R¹ is phosphate; (3) R⁶ is methyl; (4) R⁷ and R⁹ are hydroxyl; (5) R⁸ and R¹⁰ are hydrogen; and (6) X is O;

(1) Base is 8-methyladenine; (2) R¹ is hydrogen; (3) R⁶ is ethyl; (4) R⁷ and R⁹ are hydroxyl; (5) R⁸ and R¹⁰ are hydrogen; and (6) X is O;

(1) Base is 8-methyladenine; (2) R¹ is hydrogen; (3) R⁶ is propyl; (4) R⁷ and R⁹ are hydroxyl; (5) R⁸ and R¹⁰ are hydrogen; and (6) X is O;

(1) Base is 8-methyladenine; (2) R¹ is hydrogen; (3) R⁶ is butyl; (4) R⁷ and R⁹ are hydroxyl; (5) R⁸ and R¹⁰ are hydrogen; and (6) X is O;

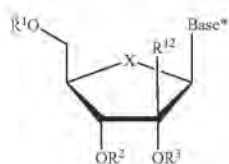
(1) Base is 8-methyladenine; (2) R¹ is hydrogen; (3) R⁶ is methyl; (4) R⁷ is hydrogen and R⁹ is hydroxyl; (5) R⁸ and R¹⁰ are hydrogen; and (6) X is O;

(1) Base is 8-methyladenine; (2) R¹ is hydrogen; (3) R⁶ is methyl; (4) R⁷ and R⁹ are hydroxyl; (5) R⁸ and R¹⁰ are hydrogen; and (6) X is S;

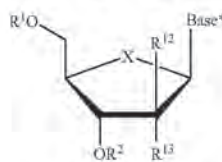
(1) Base is 8-methyladenine; (2) R¹ is hydrogen; (3) R⁶ is methyl; (4) R⁷ is hydrogen; (5) R⁸ and R¹⁰ are hydrogen; and (6) X is SO₂;

(1) Base is 8-methyladenine; (2) R¹ is hydrogen; (3) R⁶ is methyl; (4) R⁷ and R⁹ are hydroxyl; (5) R⁸ and R¹⁰ are hydrogen; and (6) X is CH₂.

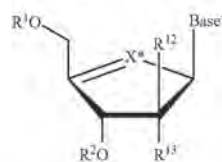
In a fifth principal embodiment, a compound of Formula (VIII), (IX) or (X) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric, or polymorphic form thereof, is provided, as well as a method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (VIII), (IX), or (X):



(VIII)



(IX)



(X)

or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, wherein: R¹, R², R³, R⁴, R⁵, Y³, X, and X* are as defined above; Base* is a purine or pyrimidine base as defined herein;

each R¹² is independently a substituted alkyl (including lower alkyl), CH₂CN, CH₂N₃, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂OH, halogenated alkyl (including halogenated lower alkyl), CF₃, C(Y³)₃, 2-Br-ethyl, CH₂F, CH₂Cl, CH₂CF₃, CF₂CF₃, C(Y³)₂C(Y³)₃, substituted alkenyl, haloalkenyl (but not Br-vinyl), substituted alkynyl,

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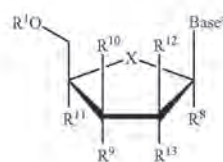
haloalkynyl, —CH₂C(O)OH, —CH₂C(O)OR⁴, —CH₂C(O)O(lower alkyl), —CH₂C(O)NH₂, —CH₂C(O)NHR⁴, —CH₂C(O)NH(lower alkyl), —CH₂C(O)N(R⁴)₂, —CH₂C(O)N(lower alkyl)₂, —(CH₂)_mC(O)OH, —(CH₂)_mC(O)OR⁴, —(CH₂)_mC(O)O(lower alkyl), —(CH₂)_mC(O)NH₂, —(CH₂)_mC(O)NHR⁴, —(CH₂)_mC(O)NH(lower alkyl), —(CH₂)_mC(O)N(R⁴)₂, —(CH₂)_mC(O)N(lower alkyl)₂, —C(O)OH, —C(O)OR⁴, —C(O)NH₂, —C(O)NHR⁴, —C(O)NH(lower alkyl), —C(O)N(R⁴)₂, —C(O)N(lower alkyl)₂;

each R¹³ is independently substituted alkyl (including lower alkyl), CH₂CN, CH₂N₃, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂OH, halogenated alkyl (including halogenated lower alkyl), CF₃, C(Y³)₃, 2-Br-ethyl, CH₂F, CH₂Cl, CH₂CF₃, CF₂CF₃, C(Y³)₂C(Y³)₃, substituted alkenyl, haloalkenyl (but not Br-vinyl), substituted alkynyl, haloalkynyl, optionally substituted carbocycle (preferably a 3-7 membered carbocyclic ring), optionally substituted heterocycle (preferably a 3-7 membered heterocyclic ring having one or more O, S and/or N), optionally substituted heteroaryl (preferably a 3-7 membered heteroaromatic ring having one or more O, S and/or N), —CH₂C(O)OH, —CH₂C(O)OR⁴, —CH₂C(O)O(lower alkyl), —CH₂C(O)SH, —CH₂C(O)SR⁴, —CH₂C(O)S(lower alkyl), —CH₂C(O)NH₂, —CH₂C(O)NHR⁴, —CH₂C(O)NH(lower alkyl), —CH₂C(O)N(R⁴)₂, —CH₂C(O)N(lower alkyl)₂, (CH₂)_mC(O)OH, —(CH₂)_mC(O)OR⁴, —(CH₂)_mC(O)O(lower alkyl), —(CH₂)_mC(O)SH, (CH₂)_mC(O)SR⁴, —(CH₂)_mC(O)S(lower alkyl), —(CH₂)_mC(O)NH₂, —(CH₂)_mC(O)NHR⁴, —(CH₂)_mC(O)NH(lower alkyl), —(CH₂)_mC(O)N(R⁴)₂, —(CH₂)_mC(O)N(lower alkyl)₂, —C(O)OH, —C(O)OR⁴, —C(O)SH, —C(O)SR⁴, —C(O)S(lower alkyl), —C(O)NH₂, —C(O)NHR⁴, —C(O)NH(lower alkyl), —C(O)N(R⁴)₂, —C(O)N(lower alkyl)₂, —O(R⁴), —O(alkenyl), —O(aralkyl), —O(cycloalkyl), —S(acyl), —S(lower acyl), —S(R⁴), —S(lower alkyl), —S(alkenyl), —S(alkynyl), —S(aralkyl), —S(cycloalkyl), —NHR⁴, —NR⁴R⁵, —NH(alkenyl), —NH(alkynyl), —NH(aralkyl), —NH(cycloalkyl), SCN, OCN, NCO or fluoro;

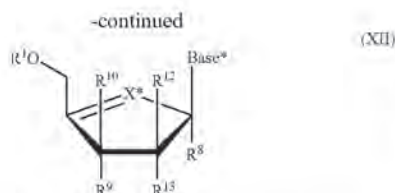
alternatively, R¹² and R¹³ can come together to form a spiro compound selected from the group consisting of optionally substituted carbocycle (preferably a 3-7 membered carbocyclic ring) or optionally substituted heterocycle (preferably a 3-7 membered heterocyclic ring having one or more O, S and/or N); and

each m is independently 0, 1 or 2.

In a sixth principal embodiment, a compound of Formula (XI) or (XII) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric, or polymorphic form thereof, is provided, as well as a method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (XI) or (XII):



(XI)



or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, wherein: Base*, R, R¹, R², R³, R⁴, R⁵, R¹², R¹³, Y, Y¹, Y², Y⁴, W*, W¹, W², W³, W⁴, X, X*, X² and X³ are as defined above;

wherein, in one embodiment, R⁸ in Formula (XI) is —OH or —NH₂ only when X is carbon; and wherein;

each R⁸ and R¹¹ is independently hydrogen, an optionally substituted alkyl (including lower alkyl), CH₃, CH₂CN, CH₂N₃, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂OH, halogenated alkyl (including halogenated lower alkyl), CF₃, C(Y³)₃, 2-Br-ethyl, CH₂F, CH₂Cl, CH₂CF₃, CF₂CF₃, C(Y³)₂C(Y³)₃, optionally substituted alkenyl, haloalkenyl, Br-vinyl, optionally substituted alkynyl, haloalkynyl, —CH₂C(O)OH, —CH₂C(O)OR⁴, —CH₂C(O)O(lower alkyl), —CH₂C(O)NH₂, —CH₂C(O)NHR⁴, —CH₂C(O)NH(lower alkyl), —CH₂C(O)N(R⁴)₂, —CH₂C(O)N(lower alkyl)₂, —(CH₂)_mC(O)OH, —(CH₂)_mC(O)OR⁴, —(CH₂)_mC(O)O(lower alkyl), —(CH₂)_mC(O)NH₂, —(CH₂)_mC(O)NHR⁴, —(CH₂)_mC(O)NH(lower alkyl), —(CH₂)_mC(O)N(R⁴)₂, —(CH₂)_mC(O)N(lower alkyl)₂, —C(O)OH, —C(O)OR⁴, —C(O)O(lower alkyl), —C(O)NH₂, —C(O)NHR⁴, —C(O)NH(lower alkyl), —C(O)N(R⁴)₂, —C(O)N(lower alkyl)₂, cyano, NH-acyl or N(acyl)₂;

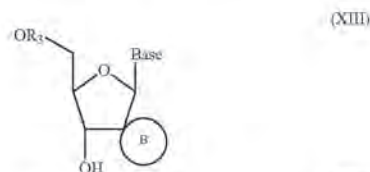
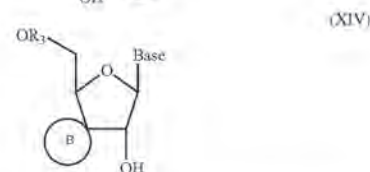
each R⁹ and R¹⁰ are independently hydrogen, OH, OR², optionally substituted alkyl (including lower alkyl), CH₃, CH₂CN, CH₂N₃, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂OH, halogenated alkyl (including halogenated lower alkyl), CF₃, C(Y³)₃, 2-Br-ethyl, CH₂F, CH₂Cl, CH₂CF₃, CF₂CF₃, C(Y³)₂C(Y³)₃, optionally substituted alkenyl, haloalkenyl, Br-vinyl, optionally substituted alkynyl, haloalkynyl, optionally substituted carbocycle (preferably a 3-7 membered carbocyclic ring), optionally substituted heterocycle (preferably a 3-7 membered heterocyclic ring having one or more O, S and/or N), optionally substituted heteroaryl (preferably a 3-7 membered heteroaromatic ring having one or more O, S and/or N), —CH₂C(O)OH, —CH₂C(O)OR⁴, —CH₂C(O)O(lower alkyl), —CH₂C(O)SH, —CH₂C(O)SR⁴, —CH₂C(O)S(lower alkyl), —CH₂C(O)NH₂, —CH₂C(O)NHR⁴, —CH₂C(O)NH(lower alkyl), —CH₂C(O)N(R⁴)₂, —CH₂C(O)N(lower alkyl)₂, —(CH₂)_mC(O)OH, —(CH₂)_mC(O)OR⁴, —(CH₂)_mC(O)O(lower alkyl), —(CH₂)_mC(O)SH, —(CH₂)_mC(O)SR⁴, —(CH₂)_mC(O)S(lower alkyl), —(CH₂)_mC(O)NH₂, —(CH₂)_mC(O)NHR⁴, —(CH₂)_mC(O)NH(lower alkyl), —(CH₂)_mC(O)N(R⁴)₂, —(CH₂)_mC(O)N(lower alkyl)₂, —C(O)OH, —C(O)OR⁴, —C(O)O(lower alkyl), —C(O)SH, —C(O)SR⁴, —C(O)S(lower alkyl), —C(O)NH₂, —C(O)NHR⁴, —C(O)NH(lower alkyl), —C(O)N(R⁴)₂, —C(O)N(lower alkyl)₂, —O(acyl), —O(lower acyl), —O(R⁴), —O(alkyl), —O(lower alkyl), —O(alkenyl), —O(alkynyl), —O(aralkyl), —O(cycloalkyl), —S(acyl), —S(lower acyl), —S(R⁴), —S(lower alkyl), —S(alkenyl), —S(alkynyl), —S(aralkyl), —S(cycloalkyl), NO₂, NH₂, —NH(lower alkyl), —NHR⁴, —NR⁴R³, —NH(acyl),

—N(lower alkyl)₂, —NH(alkenyl), —NH(alkynyl), —NH(aralkyl), —NH(cycloalkyl), —N(acyl)₂, azido, cyano, SCN, OCN, NCO or halo (fluoro, chloro, bromo, iodo);

each m is independently 0, 1 or 2; and

alternatively, R⁸ and R¹³, R⁹ and R¹³, R⁹ and R¹¹ or R¹⁰ and R¹² can come together to form a bridged compound selected from the group consisting of optionally substituted carbocycle (preferably a 3-7 membered carbocyclic ring) or optionally substituted heterocycle (preferably a 3-7 membered heterocyclic ring having one or more O, S and/or N); or alternatively, R¹² and R¹³ or R⁹ and R¹⁰ can come together to form a spiro compound selected from the group consisting of optionally substituted carbocycle (preferably a 3-7 membered carbocyclic ring) or optionally substituted heterocycle (preferably a 3-7 membered heterocyclic ring having one or more O, S and/or N).

In a particular aspect of the invention, compounds of the Formula (XIII) or (XIV) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, as well as a method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (XIII) or (XIV):



or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, wherein:

R₃ is selected from the group consisting of H; mono-, di-, and tri-phosphate or a stabilized phosphate prodrug; acyl; a sulfonate ester; optionally substituted alkyl sulfonyl; optionally substituted arylsulfonyl; a lipid; an amino acid; a carbohydrate; a peptide; cholesterol; and a pharmaceutically acceptable leaving group which when administered in vivo is capable of providing a compound wherein R₃ is independently H, or mono-, di- or triphosphate;

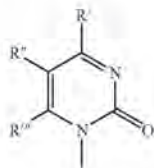
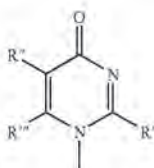
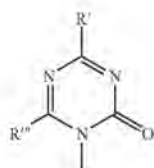
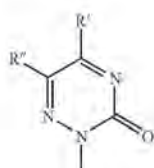
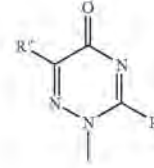
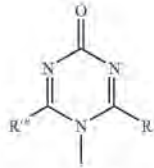
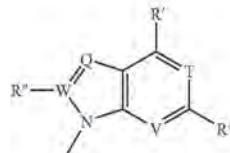
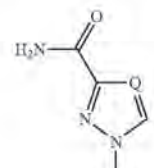
X* is selected from the group consisting of one or more O, S, SO, SO₂, N, NH, NR and CH₂ wherein any of the aforementioned may be optionally substituted and may be variably positioned so as to form a 3-7 membered ring;

R is H, alkyl or acyl;

B indicates a spiro compound selected from the group consisting of optionally substituted carbocycle (preferably a 3-7 membered carbocyclic ring) or optionally substituted heterocycle (preferably a 3-7 membered heterocyclic ring having one or more O, S and/or N); and

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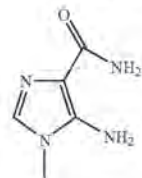
Base is selected from the group consisting of:



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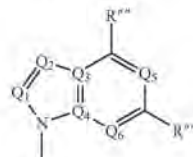
(a) 5



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(b)

15



(c) 20

wherein:

each R', R'', R''' and R'''' are independently selected from the group consisting of H, OH, substituted or unsubstituted alkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted alkynyl, cycloalkyl, Br-vinyl, —O-alkyl, O-alkenyl, O-alkynyl, O-aryl, O-aralkyl, —O-acyl, O-cycloalkyl, NH₂, NH-alkyl, N-dialkyl, NH-acyl, N-aryl, N-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-acyl, S-aryl, S-cycloalkyl, S-aralkyl, F, Cl, Br, I, CN, COOH, CONH₂, CO₂-alkyl, CONH-alkyl, CON-dialkyl, OH, CF₃, CH₂OH, (CH₂)_mOH, (CH₂)_mNH₂, (CH₂)_mCOOH, (CH₂)_mCN, (CH₂)_mNO₂ and (CH₂)_mCONH₂;

m is 0 or 1;

W is C—R'' or N;

T and V independently are CH or N;

Q is CH, —CCl, —CBr, —CF, —Cl, —CCN, —C—COOH, —C—CONH₂, or N;

Q₁ and Q₂ independently are N or C—R;

R is H, alkyl or acyl;

Q₃, Q₄, Q₅ and Q₆ independently are N or CH; and tautomeric forms thereof.

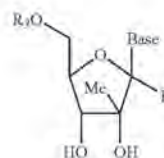
(f)

In a second particular aspect of the invention, a compound of Formula (XV), (XVI) or (XVII) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, as well as a method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (XV), (XVI), or (XVII):

(g)

(XV)

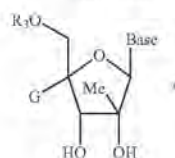
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(h)

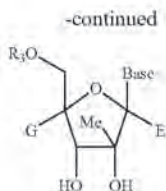
60

(XVI)



65

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(XVII)

or its pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, wherein:

G and E independently are selected from the group consisting of H, CH₃, CH₂OH, CH₂F, CH₂N₃, CH₂CN, (CH₂)_mCOOH, (CH₂)_mCOOR, (CH₂)_mCONH₂, (CH₂)_mCONR₂, (CH₂)_mCONHR and N-acyl;

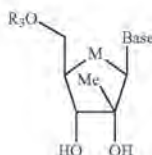
R is H, alkyl or acyl;

m is 0 or 1; and

R³ and Base are as defined for Formula (XIII).

Alternatively, for compound of Formula (XVII), at most one of G and E can further be hydrogen.

In a third particular aspect of the invention, a compound of Formula (XVIII) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, as well as a method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (XVIII):



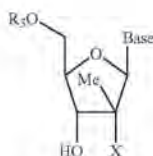
(XVIII)

or its pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, wherein:

M is selected from the group consisting of S, SO, and SO₂; and

R₃ and Base are as defined for Formula (XIII).

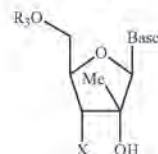
In a fourth particular aspect of the invention, a compound of Formula (XIX), (XX), (XXI) (XXII) or (XXIII) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, as well as a method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (XIX), (XXI), (XXII), or (XXIII):



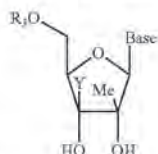
(XIX)

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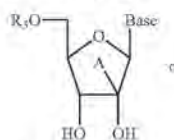
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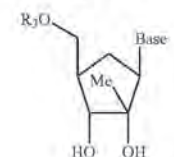
(XX)



(XXI)



(XXII)



(XXIII)

or its pharmaceutically acceptable salt or prodrug or a stereoisomeric, tautomeric or polymorphic form thereof, wherein:

A is selected from the group consisting of optionally substituted lower alkyl, cycloalkyl, alkenyl, alkynyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃, CF₃, CF₂CF₃, CH₂CO₂R, (CH₂)_mCOOH, (CH₂)_mCOOR, (CH₂)_mCO—NH₂, (CH₂)_mCONR₂, and (CH₂)_mCONHR;

Y is selected from the group consisting of H, optionally substituted lower alkyl, cycloalkyl, alkenyl, alkynyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃, CF₃, CF₂CF₃, CH₂CO₂R, (CH₂)_mCOOH, (CH₂)_mCOOR, (CH₂)_mCONH₂, (CH₂)_mCONR₂, and (CH₂)_mCONHR;

R is H, alkyl or acyl;

X is selected from the group consisting of —OH, optionally substituted alkyl, cycloalkyl, alkenyl, alkynyl, —O-alkyl, —O-alkenyl, —O-alkynyl, —O-aryl, —O-aralkyl, —O-cycloalkyl-, O-acyl, F, Cl, Br, I, CN, NC, SCN, OCN, NCO, NO₂, NH₂, N₃, NH-acyl, NH-alkyl, N-dialkyl, NH-alkenyl, NH-alkynyl, NH-aryl, NH-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-alkenyl, S-alkynyl, S-aryl, S-aralkyl, S-acyl, S-cycloalkyl, CO₂-alkyl, CONH-alkyl, CON-dialkyl, CONH-alkenyl, CONH-alkynyl, CONH-aralkyl, CONH-cycloalkyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃, CF₃, CF₂CF₃, CH₂CO₂R, (CH₂)_mCOOH, (CH₂)_mCOOR, (CH₂)_mCONH₂, (CH₂)_mCONR₂, (CH₂)_mCONHR, an optionally substituted 3-7 membered carbocyclic, and an optionally substituted 3-7 membered heterocyclic ring having O, S and/or N independently as a heteroatom taken alone or in combination;

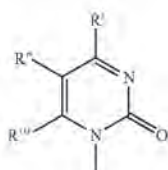
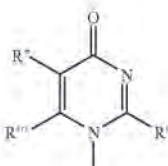
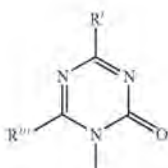
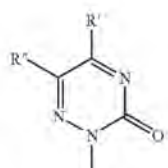
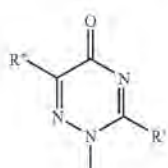
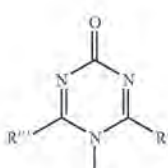
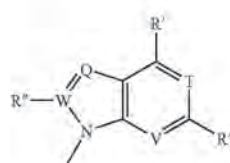
m is 0 or 1;

R₃ is selected from the group consisting of H; mono-, di-, and tri-phosphate or a stabilized phosphate prodrug; substi-

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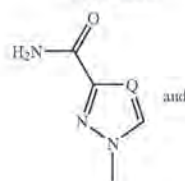
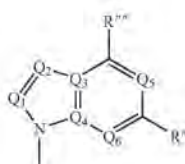
tuted or unsubstituted alkyl; acyl; a sulfonate ester; optionally substituted alkyl sulfonyl; optionally substituted aryl-sulfonyl; a lipid; an amino acid; a carbohydrate; a peptide; cholesterol; and a pharmaceutically acceptable leaving group which when administered in vivo is capable of providing a compound wherein R_1 is independently H, or mono-, di- or triphosphate; and

Base is a non-natural base selected from the group of:



104

-continued



wherein:

each R^1 , R^2 , R^3 and R^4 is independently selected from the group consisting of H, OH, substituted or unsubstituted alkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted alkynyl, cycloalkyl, Br-vinyl, —O-alkyl, O-alkenyl, O-alkynyl, O-aryl, O-aralkyl, —O-acyl, O-cycloalkyl, NH_2 , NH -alkyl, N-dialkyl, NH -acyl, N-aryl, N-aralkyl, NH -cycloalkyl, SH, S-alkyl, S-acyl, S-aryl, S-cycloalkyl, S-aralkyl, F, Cl, Br, I, CN, COOH, $CONH_2$, CO_2 -alkyl, $CONH$ -alkyl, CON -dialkyl, OH, CF_3 , CH_2OH , $(CH_2)_mOH$, $(CH_2)_mNH_2$, $(CH_2)_mCOOH$, $(CH_2)_mCN$, $(CH_2)_mNO_2$ and $(CH_2)_mCONH_2$;

m is 0 or 1;

W is C— R^5 or N;

T and V independently are CH or N;

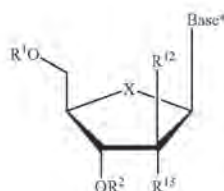
Q is CH, —CCl, —CBr, —CF, —Cl, —CCN, —C—COOH, —C—CONH₂, or N;

Q_1 and Q_2 independently are N or C— R^6 ; and

Q_3 , Q_4 , Q_5 and Q_6 independently are N or CH;

with the proviso that in bases (g) and (i), R , R^6 are not H, OH, or NH_2 ; and Q , T, V, Q_3 , Q_5 and Q_6 are not N.

In another preferred embodiment, a compound of Formula (IX), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, as well as a method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (IX):



or a stereoisomeric, tautomeric or polymorphic form thereof, or a pharmaceutically acceptable salt thereof, wherein:

R^1 , R^2 and R^3 are independently H; phosphate; straight chained, branched or cyclic alkyl; acyl; CO-alkyl; CO-aryl; CO-alkoxyalkyl; CO-aryloxyalkyl; CO-substituted aryl; sulfonate ester; benzyl, wherein the phenyl group is optionally substituted with one or more substituents; alkylsulfonyl; arylsulfonyl; aralkylsulfonyl; a lipid; an amino acid; a carbohy-

drate; a peptide; cholesterol; or a pharmaceutically acceptable leaving group which when administered in vivo is capable of providing a compound wherein R^1 , R^2 and/or R^3 is independently H or phosphate;

X is O, S, SO_2 or CH_2 ;

Base* is a purine or pyrimidine base;

R^{12} is $C(Y^3)_3$;

Y^3 is independently H, F, Cl, Br or I; and

R^{13} is fluoro.

In one subembodiment X is O, and Y^3 is H. In another subembodiment, when X is O and Y^3 is H, R^1 , R^2 and R^3 are also H.

II. Stereochemistry

It is appreciated that nucleosides of the present invention have several chiral centers and may exist in and be isolated in optically active and racemic forms. Some compounds may exhibit polymorphism. It is to be understood that the present invention encompasses any racemic, optically-active, diastereomeric, polymorphic, or stereoisomeric form, or mixtures thereof, of a compound of the invention, which possess the useful properties described herein. It being well known in the art how to prepare optically active forms (for example, by resolution of the racemic form by recrystallization techniques, by synthesis from optically-active starting materials, by chiral synthesis, or by chromatographic separation using a chiral stationary phase).

In particular, since the 1' and 4' carbons of the nucleoside are chiral, their nonhydrogen substituents (the base and the CHOR groups, respectively) can be either cis (on the same side) or trans (on opposite sides) with respect to the sugar ring system. The four optical isomers therefore are represented by the following configurations (when orienting the sugar moiety in a horizontal plane such that the oxygen atom is in the back): cis (with both groups "up", which corresponds to the configuration of naturally occurring β -D nucleosides), cis (with both groups "down", which is a nonnaturally occurring β -L configuration), trans (with the C2' substituent "up" and the C4' substituent "down"), and trans (with the C2' substituent "down" and the C4' substituent "up"). The "D-nucleosides" are cis nucleosides in a natural configuration and the "L-nucleosides" are cis nucleosides in the nonnaturally occurring configuration.

Likewise, most amino acids are chiral (designated as L or D, wherein the L enantiomer is the naturally occurring configuration) and can exist as separate enantiomers.

Examples of methods to obtain optically active materials are known in the art, and include at least the following.

- i) physical separation of crystals—a technique whereby macroscopic crystals of the individual enantiomers are manually separated. This technique can be used if crystals of the separate enantiomers exist, i.e., the material is a conglomerate, and the crystals are visually distinct;
- ii) simultaneous crystallization—a technique whereby the individual enantiomers are separately crystallized from a solution of the racemate, possible only if the latter is a conglomerate in the solid state;
- iii) enzymatic resolutions—a technique whereby partial or complete separation of a racemate by virtue of differing rates of reaction for the enantiomers with an enzyme;
- iv) enzymatic asymmetric synthesis—a synthetic technique whereby at least one step of the synthesis uses an enzymatic reaction to obtain an enantiomerically pure or enriched synthetic precursor of the desired enantiomer;
- v) chemical asymmetric synthesis—a synthetic technique whereby the desired enantiomer is synthesized from an achiral precursor under conditions that produce asymmetry

(i.e., chirality) in the product, which may be achieved using chiral catalysts or chiral auxiliaries;

- vi) diastereomer separations—a technique whereby a racemic compound is reacted with an enantiomerically pure reagent (the chiral auxiliary) that converts the individual enantiomers to diastereomers. The resulting diastereomers are then separated by chromatography or crystallization by virtue of their now more distinct structural differences and the chiral auxiliary later removed to obtain the desired enantiomer;
- vii) first- and second-order asymmetric transformations—a technique whereby diastereomers from the racemate equilibrate to yield a preponderance in solution of the diastereomer from the desired enantiomer or where preferential crystallization of the diastereomer from the desired enantiomer perturbs the equilibrium such that eventually in principle all the material is converted to the crystalline diastereomer from the desired enantiomer. The desired enantiomer is then released from the diastereomer;
- viii) kinetic resolutions—this technique refers to the achievement of partial or complete resolution of a racemate (or of a further resolution of a partially resolved compound) by virtue of unequal reaction rates of the enantiomers with a chiral, non-racemic reagent or catalyst under kinetic conditions;
- ix) enantiospecific synthesis from non-racemic precursors—a synthetic technique whereby the desired enantiomer is obtained from non-chiral starting materials and where the stereochemical integrity is not or is only minimally compromised over the course of the synthesis;
- x) chiral liquid chromatography—a technique whereby the enantiomers of a racemate are separated in a liquid mobile phase by virtue of their differing interactions with a stationary phase. The stationary phase can be made of chiral material or the mobile phase can contain an additional chiral material to provoke the differing interactions;
- xi) chiral gas chromatography—a technique whereby the racemate is volatilized and enantiomers are separated by virtue of their differing interactions in the gaseous mobile phase with a column containing a fixed non-racemic chiral adsorbent phase;
- xii) extraction with chiral solvents—a technique whereby the enantiomers are separated by virtue of preferential dissolution of one enantiomer into a particular chiral solvent;
- xiii) transport across chiral membranes—a technique whereby a racemate is placed in contact with a thin membrane barrier. The barrier typically separates two miscible fluids, one containing the racemate, and a driving force such as concentration or pressure differential causes preferential transport across the membrane barrier. Separation occurs as a result of the non-racemic chiral nature of the membrane which allows only one enantiomer of the racemate to pass through.

III. Definitions

The term "alkyl", as used herein, unless otherwise specified, refers to a saturated straight, branched, or cyclic, primary, secondary, or tertiary hydrocarbon of typically C_1 to C_{10} , and specifically includes methyl, CF_3 , CCl_3 , $CFCl_2$, CF_2Cl , ethyl, CH_2CF_3 , CF_2CF_3 , propyl, isopropyl, cyclopropyl, butyl, isobutyl, secbutyl, t-butyl, pentyl, cyclopentyl, isopentyl, neopentyl, hexyl, isohexyl, cyclohexyl, cyclohexylmethyl, 3-methylpentyl, 2,2-dimethylbutyl, and 2,3-dimethylbutyl. The term includes both substituted and unsubstituted alkyl groups, and particularly includes halogenated alkyl groups, and even more particularly fluorinated alkyl groups. Non-limiting examples of moieties with which the alkyl

group can be substituted are selected from the group consisting of halogen (fluoro, chloro, bromo or iodo), hydroxyl, amino, alkylamino, arylamino, alkoxy, aryloxy, nitro, cyano, sulfonic acid, sulfate, phosphonic acid, phosphate, or phosphonate, either unprotected, or protected as necessary, as known to those skilled in the art, for example, as taught in Greene, et al., *Protective Groups in Organic Synthesis*, John Wiley and Sons, Second Edition, 1991, hereby incorporated by reference.

The term "lower alkyl", as used herein, and unless otherwise specified, refers to a C₁ to C₄ saturated straight, branched, or if appropriate, a cyclic (for example, cyclopropyl) alkyl group, including both substituted and unsubstituted moieties.

The term "alkylamino" or "arylamino" refers to an amino group that has one or two alkyl or aryl substituents, respectively. Unless otherwise specifically stated in this application, when alkyl is a suitable moiety, lower alkyl is preferred. Similarly, when alkyl or lower alkyl is a suitable moiety, unsubstituted alkyl or lower alkyl is preferred.

The term "protected" as used herein and unless otherwise defined refers to a group that is added to an oxygen, nitrogen, or phosphorus atom to prevent its further reaction or for other purposes. A wide variety of oxygen and nitrogen protecting groups are known to those skilled in the art of organic synthesis.

The term "aryl", as used herein, and unless otherwise specified, refers to phenyl, biphenyl, or naphthyl, and preferably phenyl. The term includes both substituted and unsubstituted moieties. The aryl group can be substituted with any described moiety, including, but not limited to, one or more moieties selected from the group consisting of halogen (fluoro, chloro, bromo or iodo), hydroxyl, amino, alkylamino, arylamino, alkoxy, aryloxy, nitro, cyano, sulfonic acid, sulfate, phosphonic acid, phosphate, or phosphonate, either unprotected, or protected as necessary, as known to those skilled in the art, for example, as taught in Greene, et al., *Protective Groups in Organic Synthesis*, John Wiley and Sons, Second Edition, 1991.

The term "alkaryl" or "alkylaryl" refers to an alkyl group with an aryl substituent. The term aralkyl or arylalkyl refers to an aryl group with an alkyl substituent.

The term "halo", as used herein, includes chloro, bromo, iodo, and fluoro.

The term "purine" or "pyrimidine" base includes, but is not limited to, adenine, N⁶-alkylpurines, N⁶-acylpurines (wherein acyl is C(O)(alkyl, aryl, alkylaryl, or arylalkyl), N⁶-benzylpurine, N⁶-halopurine, N⁶-vinylpurine, N⁶-acetylenic purine, N⁶-acyl purine, N⁶-hydroxyalkyl purine, N⁶-alkylaminopurine, N⁶-thioalkyl purine, N²-alkylpurines, N²-alkyl-6-thiopurines, thymine, cytosine, 5-fluorocytosine, 5-methylcytosine, 6-azapyrimidine, including 6-azacytosine, 2- and/or 4-mercaptopyrimidine, uracil, 5-halouracil, including 5-fluorouracil, C⁵-alkylpyrimidines, C⁵-benzylpyrimidines, C⁵-halopyrimidines, C⁵-vinylpyrimidine, C⁵-acetylenic pyrimidine, C⁵-acyl pyrimidine, C⁵-hydroxyalkyl purine, C⁵-amidopyrimidine, C⁵-cyanopyrimidine, C⁵-iodopyrimidine, C⁶-iodo-pyrimidine, C⁵-Br-vinyl pyrimidine, C⁶-Br-vinyl pyrimidine, C⁵-nitropurine, C⁵-amino-pyrimidine, N²-alkylpurines, N²-alkyl-6-thiopurines, 5-azacytidine, 5-azauracil, triazolopyridine, imidazolopyridine, pyrrolopyrimidine, and pyrazolopyrimidine. Purine bases include, but are not limited to, guanine, adenine, hypoxanthine, 2,6-diaminopurine, and 6-chloropurine. Functional oxygen and nitrogen groups on the base can be protected as necessary or desired. Suitable protecting groups are well known to those skilled in the art, and include trimethylsilyl,

dimethylhexylsilyl, 1-butyldimethylsilyl, and 1-butyldiphenylsilyl, trityl, alkyl groups, and acyl groups such as acetyl and propionyl, methanesulfonyl, and p-toluenesulfonyl.

The term "acyl" or "O-linked ester" refers to a group of the formula C(O)R', wherein R' is an straight, branched, or cyclic alkyl (including lower alkyl), amino acid, aryl including phenyl, alkaryl, aralkyl including benzyl, alkoxyalkyl including methoxymethyl, aryloxyalkyl such as phenoxyethyl; or substituted alkyl (including lower alkyl), aryl including phenyl optionally substituted with chloro, bromo, fluoro, iodo, C₁ to C₄ alkyl or C₁ to C₄ alkoxy, sulfonate esters such as alkyl or aralkyl sulphonyl including methanesulfonyl, the mono, di or triphosphate ester, trityl or monomethoxy-trityl, substituted benzyl, alkaryl, aralkyl including benzyl, alkoxyalkyl including methoxymethyl, aryloxyalkyl such as phenoxyethyl. Aryl groups in the esters optimally comprise a phenyl group. In particular, acyl groups include acetyl, trifluoroacetyl, methylacetyl, cyclopropylacetyl, cyclopropyl carboxy, propionyl, butyryl, hexanoyl, heptanoyl, octanoyl, neo-heptanoyl, phenylacetyl, 2-acetoxy-2-phenylacetyl, diphenylacetyl, α -methoxy- α -trifluoromethyl-phenylacetyl, bromoacetyl, 2-nitro-benzeneacetyl, 4-chloro-benzeneacetyl, 2-chloro-2,2-diphenylacetyl, 2-chloro-2-phenylacetyl, trimethylacetyl, chlorodifluoroacetyl, perfluoroacetyl, fluoroacetyl, bromodifluoroacetyl, methoxyacetyl, 2-thiopheneacetyl, chlorosulfonylacetyl, 3-methoxyphenylacetyl, phenoxyacetyl, tert-butylacetyl, trichloroacetyl, monochloro-acetyl, dichloroacetyl, 7H-dodecafluoro-heptanoyl, perfluoro-heptanoyl, 7H-dodeca-fluoroheptanoyl, 7-chlorododecafluoro-heptanoyl, 7-chloro-dodecafluoro-heptanoyl, 7H-dodecafluoroheptanoyl, 7H-dodeca-fluoroheptanoyl, nonafluoro-3,6-dioxo-heptanoyl, nonafluoro-3,6-dioxoheptanoyl, perfluoroheptanoyl, methoxybenzoyl, methyl 3-amino-5-phenylthiophene-2-carboxyl, 3,6-dichloro-2-methoxy-benzoyl, 4-(1,1,2,2-tetrafluoroethoxy)-benzoyl, 2-bromo-propionyl, omega-aminocapryl, decanoyl, n-pentadecanoyl, stearyl, 3-cyclopentyl-propionyl, 1-benzene-carboxyl, O-acetylmandelyl, pivaloyl acetyl, 1-adamantane-carboxyl, cyclohexane-carboxyl, 2,6-pyridinedicarboxyl, cyclopropane-carboxyl, cyclobutane-carboxyl, perfluorocyclohexyl carboxyl, 4-methylbenzoyl, chloromethyl isoxazolyl carbonyl, perfluorocyclohexyl carboxyl, crotonyl, 1-methyl-1H-indazole-3-carbonyl, 2-propenyl, isovaleryl, 1-pyrrolidinecarbonyl, 4-phenylbenzoyl. When the term acyl is used, it is meant to be a specific and independent disclosure of acetyl, trifluoroacetyl, methylacetyl, cyclopropylacetyl, propionyl, butyryl, hexanoyl, heptanoyl, octanoyl, neo-heptanoyl, phenylacetyl, diphenylacetyl, α -trifluoromethyl-phenylacetyl, bromoacetyl, 4-chloro-benzeneacetyl, 2-chloro-2,2-diphenylacetyl, 2-chloro-2-phenylacetyl, trimethylacetyl, chlorodifluoroacetyl, perfluoroacetyl, fluoroacetyl, bromodifluoroacetyl, 2-thiopheneacetyl, tert-butylacetyl, trichloroacetyl, monochloro-acetyl, dichloroacetyl, methoxybenzoyl, 2-bromo-propionyl, decanoyl, n-pentadecanoyl, stearyl, 3-cyclopentyl-propionyl, 1-benzene-carboxyl, pivaloyl acetyl, 1-adamantane-carboxyl, cyclohexane-carboxyl, 2,6-pyridinedicarboxyl, cyclopropane-carboxyl, cyclobutane-carboxyl, 4-methylbenzoyl, crotonyl, 1-methyl-1H-indazole-3-carbonyl, 2-propenyl, isovaleryl, 4-phenylbenzoyl.

The term "amino acid" includes naturally occurring and synthetic α , β γ or δ amino acids, and includes but is not limited to, amino acids found in proteins, i.e. glycine, alanine, valine, leucine, isoleucine, methionine, phenylalanine, tryptophan, proline, serine, threonine, cysteine, tyrosine, asparagine, glutamine, aspartate, glutamate, lysine, arginine and histidine. In a preferred embodiment, the amino acid is in the

L-configuration. Alternatively, the amino acid can be a derivative of alanyl, valinyl, leucanyl, isoleuccinyl, prolinyl, phenylalaninyl, tryptophanyl, methioninyl, glycyl, serinyl, threoninyl, cysteinyl, tyrosinyl, asparaginyl, glutaminyl, aspartoyl, glutaroyl, lysinyl, argininyl, histidinyl, β -alanyl, β -valinyl, β -leucinyl, β -isoleuccinyl, β -prolinyl, β -phenylalaninyl, β -tryptophanyl, β -methioninyl, β -glycyl, β -serinyl, β -threoninyl, β -cysteinyl, β -tyrosinyl, β -asparaginyl, β -glutaminyl, β -aspartoyl, β -glutaroyl, β -lysyl, β -arginyl or β -histidinyl. Tables 1-24 set out examples of species within the present invention. When the term amino acid is used, it is considered to be a specific and independent disclosure of each of the esters of α , β γ or δ glycine, alanine, valine, leucine, isoleucine, methionine, phenylalanine, tryptophan, proline, serine, threonine, cysteine, tyrosine, asparagine, glutamine, aspartate, glutamate, lysine, arginine and histidine in the D and L-configurations.

As used herein, the term "substantially free of" or "substantially in the absence of" refers to a nucleoside composition that includes at least 85 or 90% by weight, preferably 95%, 98%, 99% or 100% by weight, of the designated enantiomer of that nucleoside. In a preferred embodiment, in the methods and compounds of this invention, the compounds are substantially free of enantiomers.

Similarly, the term "isolated" refers to a nucleoside composition that includes at least 85%, 90%, 95%, 98%, 99%, or 100% by weight, of the nucleoside, the remainder comprising other chemical species or enantiomers.

The term "host", as used herein, refers to an unicellular or multicellular organism in which the virus can replicate, including cell lines and animals, and preferably a human. Alternatively, the host can be carrying a part of the Flaviviridae viral genome, whose replication or function can be altered by the compounds of the present invention. The term host specifically refers to infected cells, cells transfected with all or part of the Flaviviridae genome and animals, in particular, primates (including chimpanzees) and humans. In most animal applications of the present invention, the host is a human patient. Veterinary applications, in certain indications, however, are clearly anticipated by the present invention (such as chimpanzees).

The term "pharmaceutically acceptable salt or prodrug" is used throughout the specification to describe any pharmaceutically acceptable form (such as an ester, phosphate ester, salt of an ester or a related group) of a nucleoside compound which, upon administration to a patient, provides the nucleoside compound. Pharmaceutically acceptable salts include those derived from pharmaceutically acceptable inorganic or organic bases and acids. Suitable salts include those derived from alkali metals such as potassium and sodium, alkaline earth metals such as calcium and magnesium, among numerous other acids well known in the pharmaceutical art. Pharmaceutically acceptable prodrugs refer to a compound that is metabolized, for example hydrolyzed or oxidized, in the host to form the compound of the present invention. Typical examples of prodrugs include compounds that have biologically labile protecting groups on a functional moiety of the active compound. Prodrugs include compounds that can be oxidized, reduced, aminated, deaminated, hydroxylated, dehydroxylated, hydrolyzed, dehydrolyzed, alkylated, dealkylated, acylated, deacylated, phosphorylated, dephosphorylated to produce the active compound. The compounds of this invention possess antiviral activity against a Flaviviridae, or are metabolized to a compound that exhibits such activity.

IV. Prodrugs and Derivatives

The active compound can be administered as any salt or prodrug that upon administration to the recipient is capable of providing directly or indirectly the parent compound, or that exhibits activity itself. Nonlimiting examples are the pharmaceutically acceptable salts (alternatively referred to as "physiologically acceptable salts"), and a compound, which has been alkylated, acylated, or otherwise modified at the 5'-position, or on the purine or pyrimidine base (a type of "pharmaceutically acceptable prodrug"). Further, the modifications can affect the biological activity of the compound, in some cases increasing the activity over the parent compound. This can easily be assessed by preparing the salt or prodrug and testing its antiviral activity according to the methods described herein, or other methods known to those skilled in the art.

A. Pharmaceutically Acceptable Salts

In cases where compounds are sufficiently basic or acidic to form stable nontoxic acid or base salts, administration of the compound as a pharmaceutically acceptable salt may be appropriate. Examples of pharmaceutically acceptable salts are organic acid addition salts formed by addition of acids, which form a physiological acceptable anion, for example, tosylate, methanesulfonate, acetate, citrate, malonate, tartrate, succinate, benzoate, ascorate, α -ketoglutarate, α -glycerophosphate, formate, fumarate, propionate, glycolate, lactate, pyruvate, oxalate, maleate, and salicylate. Suitable inorganic salts may also be formed, including, sulfate, nitrate, bicarbonate, carbonate salts, hydrobromate and phosphoric acid. In a preferred embodiment, the salt is a mono- or dihydrochloride salt.

Pharmaceutically acceptable salts may be obtained using standard procedures well known in the art, for example by reacting a sufficiently basic compound such as an amine with a suitable acid affording a physiologically acceptable anion. Alkali metal (for example, sodium, potassium or lithium) or alkaline earth metal (for example calcium) salts of carboxylic acids can also be made. In one embodiment, the salt is a hydrochloride salt of the compound. In another embodiment, the pharmaceutically acceptable salt is a dihydrochloride salt.

B. Nucleotide Prodrug Formulations

The nucleosides described herein can be administered as a nucleotide prodrug to increase the activity, bioavailability, stability or otherwise alter the properties of the nucleoside. A number of nucleotide prodrug ligands are known. In general, alkylation, acylation or other lipophilic modification of the mono-, di- or triphosphate of the nucleoside reduces polarity and allows passage into cells. Examples of substituent groups that can replace one or more hydrogens on the phosphate moiety are alkyl, aryl, steroids, carbohydrates, including sugars, 1,2-diacylglycerol and alcohols. Many are described in R. Jones and N. Bischofberger, *Antiviral Research*, 1995, 27:1-17. Any of these can be used in combination with the disclosed nucleosides to achieve a desired effect.

In an alternative embodiment, the nucleoside is delivered as a phosphonate or a SATE derivative.

The active nucleoside can also be provided as a 2', 3' and/or 5'-phosphoether lipid or a 2', 3' and/or 5'-ether lipid. Non-limiting examples are described include the following references, which are incorporated by reference herein: Kucera, L. S., N. Iyer, E. Leake, A. Raben, Modest E. K., D. L. W., and C. Piantadosi. 1990. "Novel membrane-interactive ether lipid analogs that inhibit infectious HIV-1 production and induce defective virus formation." *AIDS Res. Hum. Retro Viruses*. 6:491-501; Piantadosi, C., J. Marasco C. J., S. L. Morris-Natschke, K. L. Meyer, F. Gumus, J. R. Surles, K. S. Ishaq, L.

S. Kucera, N. Iyer, C. A. Wallen, S. Piantadosi, and E. J. Modest. 1991. "Synthesis and evaluation of novel ether lipid nucleoside conjugates for anti-HIV activity." *J. Med. Chem.* 34:1408-1414; Hostetter, K. Y., D. D. Richman, D. A. Carson, L. M. Stuhmiller, G. M. T. van Wijk, and H. van den Bosch. 1992. "Greatly enhanced inhibition of human immunodeficiency virus type 1 replication in CEM and HT4-6C cells by 3'-deoxythymine diphosphate dimyristoylglycerol, a lipid prodrug of 3'-deoxythymine." *Antimicrob. Agents Chemother.* 36:2025-2029; Hosetler, K. Y., L. M. Stuhmiller, H. B. Lenting, H. van den Bosch, and D. D. Richman. 1990. "Synthesis and antiretroviral activity of phospholipid analogs of azidothymine and other antiviral nucleosides." *J. Biol. Chem.* 265:61127.

Nonlimiting examples of U.S. patents that disclose suitable lipophilic substituents that can be covalently incorporated into the nucleoside, preferably at the 2', 3' and/or 5'-OH position of the nucleoside or lipophilic preparations, include U.S. Pat. No. 5,149,794 (Sep. 22, 1992, Yatvin et al.); U.S. Pat. No. 5,194,654 (Mar. 16, 1993, Hostetter et al.); U.S. Pat. No. 5,223,263 (Jun. 29, 1993, Hostetter et al.); U.S. Pat. No. 5,256,641 (Oct. 26, 1993, Yatvin et al.); U.S. Pat. No. 5,411,947 (May 2, 1995, Hostetter et al.); U.S. Pat. No. 5,463,092 (Oct. 31, 1995, Hostetter et al.); U.S. Pat. No. 5,543,389 (Aug. 6, 1996, Yatvin et al.); U.S. Pat. No. 5,543,390 (Aug. 6, 1996, Yatvin et al.); U.S. Pat. No. 5,543,391 (Aug. 6, 1996, Yatvin et al.); and U.S. Pat. No. 5,554,728 (Sep. 10, 1996, Basava et al.), all of which are incorporated herein by reference. Foreign patent applications that disclose lipophilic substituents that can be attached to the nucleosides of the present invention, or lipophilic preparations, include WO 89/02733, WO 90/00555, WO 91/16920, WO 91/18914, WO 93/00910, WO 94/26273, WO 96/15132, EP 0 350 287, EP 93917054.4, and WO 91/19721.

Aryl esters, especially phenyl esters, are also provided. Nonlimiting examples are disclosed in DeLambert et al., *J. Med. Chem.* 37: 498 (1994). Phenyl esters containing a carboxylic ester ortho to the phosphate are also provided. Khamnei and Torrence, *J. Med. Chem.*; 39:4109-4115 (1996). In particular, benzyl esters, which generate the parent compound, in some cases using substituents at the ortho- or para-position to accelerate hydrolysis, are provided. Examples of this class of prodrugs are described by Mitchell et al., *J. Chem. Soc. Perkin Trans. I* 2345 (1992); Brook, et al. WO 91/19721; and Glazier et al. WO 91/19721.

Cyclic and noncyclic phosphonate esters are also provided. Nonlimiting examples are disclosed in Hunston et al., *J. Med. Chem.* 27: 440-444 (1984) and Starrett et al. *J. Med. Chem.* 37: 1857-1864 (1994). Additionally, cyclic 3',5'-phosphate esters are provided. Nonlimiting examples are disclosed in Meier et al. *J. Med. Chem.* 22: 811-815 (1979). Cyclic 1',3'-propanyl phosphonate and phosphate esters, such as ones containing a fused aryl ring, i.e. the cyclosaligenyl ester, are also provided (Meier et al., *Bioorg. Med. Chem. Lett.* 7: 99-104 (1997)). Unsubstituted cyclic 1',3'-propanyl esters of the monophosphates are also provided (Farquhar et al., *J. Med. Chem.* 26: 1153 (1983); Farquhar et al., *J. Med. Chem.* 28: 1358 (1985)) were prepared. In addition, cyclic 1',3'-propanyl esters substituted with a pivaloyloxy methoxy group at C-1' are provided (Freed et al., *Biochem. Pharmac.* 38: 3193 (1989); Biller et al., U.S. Pat. No. 5,157,027).

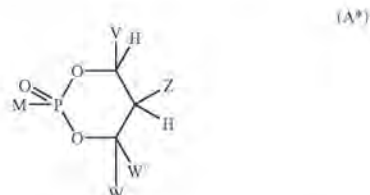
Cyclic phosphoramidates are known to cleave in vivo by an oxidative mechanism. Therefore, in one embodiment of the present invention, a variety of substituted 1',3'-propanyl cyclic phosphoramidates are provided. Non-limiting examples are disclosed by Zon, *Progress in Med. Chem.* 19, 1205 (1982). Additionally, a number of 2'- and 3'-substituted proesters are

provided. 2'-Substituents include methyl, dimethyl, bromo, trifluoromethyl, chloro, hydroxy, and methoxy; 3'-substituents including phenyl, methyl, trifluoromethyl, ethyl, propyl, i-propyl, and cyclohexyl. A variety of 1'-substituted analogs are also provided.

Cyclic esters of phosphorus-containing compounds are also provided. Non-limiting examples are described in the following:

- [1] di and tri esters of phosphoric acids as reported in Nifantsev et al., *Phosphorus, Sulfur Silicon and Related Elements*, 113: 1 (1996); Wijnberg et al., EP-180276A1;
- [2] phosphorus (III) acid esters. Kryuchkov et al., *Izv. Akad. Nauk SSSR, Ser. Khim.* 6: 1244 (1987). Some of the compounds were claimed to be useful for the asymmetric synthesis of L-Dopa precursors. Sylvain et al., DE3512781 A1;
- [3] phosphoramidates. Shih et al., *Bull. Inst. Chem. Acad. Sin.*, 41: 9 (1994); Edmundson et al., *J. Chem. Res. Synop.* 5: 122 (1989); and
- [4] phosphonates. Neidlein et al., *Heterocycles* 35: 1185 (1993).

Further, nonlimiting examples of U.S. and International Patent Applications that disclose suitable cyclic phosphoramidate prodrugs include U.S. Pat. No. 6,312,662; WO 99/45016; WO 00/52015; WO 01/47935; and WO 01/18013 to Erion, et al. from Metabasis Therapeutics, Inc. Specifically, prodrugs of the formula below are provided:



wherein:

- together V and Z are connected via an additional 3-5 atoms to form a cyclic group containing 5-7 atoms, optionally 1 heteroatom, substituted with hydroxy, acyloxy, alkoxycarbonyloxy, or aryloxy carbonyloxy attached to a carbon atom that is three atoms from both O groups attached to the phosphorus; or
- together V and Z are connected via an additional 3-5 atoms to form a cyclic group, optionally containing 1 heteroatom, that is fused to an aryl group at the beta and gamma position to the O attached to the phosphorus;
- together V and W are connected via an additional 3 carbon atoms to form an optionally substituted cyclic group containing 6 carbon atoms and substituted with one substituent selected from the group consisting of hydroxy, acyloxy, alkoxycarbonyloxy, alkylthiocarbonyloxy, and aryloxy carbonyloxy, attached to one of said carbon atoms that is three atoms from an O attached to the phosphorus;
- together Z and W are connected via an additional 3-5 atoms to form a cyclic group, optionally containing one heteroatom, and V must be aryl, substituted aryl, heteroaryl, or substituted heteroaryl;
- together W and W' are connected via an additional 2-5 atoms to form a cyclic group, optionally containing 0-2 heteroatoms, and V must be aryl, substituted aryl, heteroaryl, or substituted heteroaryl;

Z is selected from the group consisting of $-\text{CHR}^2\text{OH}$, $-\text{CHR}^2\text{OC}(\text{O})\text{R}^3$, $-\text{CHR}^2\text{OC}(\text{S})\text{R}^3$, $-\text{CHR}^2\text{OC}(\text{S})\text{OR}^3$, $-\text{CHR}^2\text{OC}(\text{O})\text{SR}^3$, $-\text{CHR}^2\text{OCO}_2\text{R}^3$, $-\text{OR}^2$, $-\text{SR}^2$, $-\text{CHR}^2\text{N}_3$, $-\text{CH}^2\text{aryl}$, $-\text{CH}(\text{aryl})\text{OH}$, $-\text{CH}(\text{CH}=\text{CR}^2_2)\text{OH}$, $-\text{CH}(\text{C.ident.}\text{CR}^2)\text{OH}$, $-\text{R}^2$, $-\text{NR}^2_2$, $-\text{OCOR}^3$, $-\text{OCO}_2\text{R}^3$, $-\text{SCOR}^3$, $-\text{SCO}_2\text{R}^3$, $-\text{NHCOR}^2$, $-\text{NHCO}_2\text{R}^3$, $-\text{CH}_2\text{NHaryl}$, $-(\text{CH}_2)_p-\text{OR}^{1,2}$, and $-(\text{CH}_2)_p-\text{SR}^{1,2}$;

p is an integer 2 or 3;

with the provisos that:

- V, Z, W, W' are not all $-\text{H}$; and
- when Z is $-\text{R}^2$, then at least one of V, W, and W' is not $-\text{H}$, alkyl, aralkyl, or alicyclic;

R^2 is selected from the group consisting of R^3 and $-\text{H}$;

R^3 is selected from the group consisting of alkyl, aryl, alicyclic, and aralkyl;

$\text{R}^{1,2}$ is selected from the group consisting of $-\text{H}$, and lower acyl;

M is the biologically active agent, and that is attached to the phosphorus in formula I via the 2', 3' and/or 5'-hydroxyl.

V. Combination or Alternation Therapy

The active compounds of the present invention can be administered in combination or alternation with another anti-flavivirus or pestivirus agent, or in particular an anti-HCV agent to treat any of the conditions described herein. In combination therapy, effective dosages of two or more agents are administered together, whereas in alternation or sequential-step therapy, an effective dosage of each agent is administered serially or sequentially. The dosages given will depend on absorption, inactivation and excretion rates of the drug as well as other factors known to those of skill in the art. It is to be noted that dosage values will also vary with the severity of the condition to be alleviated. It is to be further understood that for any particular subject, specific dosage regimens and schedules should be adjusted over time according to the individual need and the professional judgment of the person administering or supervising the administration of the compositions. In preferred embodiments, an anti-HCV (or anti-pestivirus or anti-flavivirus) compound that exhibits an EC_{50} of 10-15 μM , or preferably less than 1-5 μM , is desirable.

It has been recognized that drug-resistant variants of flaviviruses, pestiviruses or HCV can emerge after prolonged treatment with an antiviral agent. Drug resistance most typically occurs by mutation of a gene that encodes for an enzyme used in viral replication. The efficacy of a drug against the viral infection can be prolonged, augmented, or restored by administering the compound in combination or alternation with a second, and perhaps third, antiviral compound that induces a different mutation from that caused by the principle drug. Alternatively, the pharmacokinetics, biodistribution or other parameter of the drug can be altered by such combination or alternation therapy. In general, combination therapy is typically preferred over alternation therapy because it induces multiple simultaneous stresses on the virus.

Any of the viral treatments described in the Background of the Invention can be used in combination or alternation with the compounds described in this specification. Nonlimiting examples include:

1) Protease Inhibitors

Examples include substrate-based NS3 protease inhibitors (Attwood et al., Antiviral peptide derivatives, PCT WO 98/22496, 1998; Attwood et al., Antiviral Chemistry and Chemotherapy 1999, 10, 259-273; Attwood et al., Preparation and use of amino acid derivatives as anti-viral agents, German Patent Pub. DE 19914474; Tung et al. Inhibitors of serine proteases, particularly hepatitis C virus NS3 protease, PCT

WO 98/17679), including alphaketoamides and hydrazinoneureas, and inhibitors that terminate in an electrophile such as a boronic acid or phosphonate (Llinas-Brunet et al. Hepatitis C inhibitor peptide analogues, PCT WO 99/07734); Non-substrate-based NS3 protease inhibitors such as 2,4,6-trihydroxy-3-nitro-benzamide derivatives (Sudo K. et al., Biochemical and Biophysical Research Communications, 1997, 238, 643-647; Sudo K. et al. Antiviral Chemistry and Chemotherapy, 1998, 9, 186), including RD3-4082 and RD3-4078, the former substituted on the amide with a 14 carbon chain and the latter processing a para-phenoxyphenyl group; and Sch 68631, a phenanthrenequinone, an HCV protease inhibitor (Chu M. et al., Tetrahedron Letters 37:7229-7232, 1996).

Sch 351633, isolated from the fungus *Penicillium griseofulvum*, was identified as a protease inhibitor (Chu M. et al., Bioorganic and Medicinal Chemistry Letters 9:1949-1952). Eglin c, isolated from leech, is a potent inhibitor of several serine proteases such as *S. griseus* proteases A and B, α -chymotrypsin, chymase and subtilisin. Qasim M. A. et al., Biochemistry 36:1598-1607, 1997.

U.S. patents disclosing protease inhibitors for the treatment of HCV include, for example, U.S. Pat. No. 6,004,933 to Spruce et al. which discloses a class of cysteine protease inhibitors for inhibiting HCV endopeptidase 2; U.S. Pat. No. 5,990,276 to Zhang et al. which discloses synthetic inhibitors of hepatitis C virus NS3 protease; U.S. Pat. No. 5,538,865 to Reyes et al.; WO 02/008251 to Corvas International, Inc. and WO 02/08187 and WO 02/008256 to Schering Corporation. HCV inhibitor tripeptides are disclosed in U.S. Pat. Nos. 6,534,523, 6,410,531, and 6,420,380 to Boehringer Ingelheim and WO 02/060926 to Bristol Myers Squibb. Diaryl peptides as NS3 serine protease inhibitors of HCV are disclosed in WO 02/48172 to Schering Corporation. Imidazole-dinones as NS3 serine protease inhibitors of HCV are disclosed in WO 02/08198 to Schering Corporation and WO 02/48157 to Bristol Myers Squibb. WO 98/17679 to Vertex Pharmaceuticals and WO 02/48116 to Bristol Myers Squibb also disclose HCV protease inhibitors.

2) Thiazolidine derivatives which show relevant inhibition in a reverse-phase HPLC assay with an NS3/4A fusion protein and NS5A/5B substrate (Sudo K. et al., Antiviral Research, 1996, 32, 9-18), especially compound RD-1-6250, possessing a fused cinnamoyl moiety substituted with a long alkyl chain, RD4 6205 and RD4 6193;

3) Thiazolidines and benzamides identified in Kakiuchi N. et al. J. EBS Letters 421, 217-220; Takeshita N. et al. Analytical Biochemistry, 1997, 247, 242-246;

4) A phenanthrenequinone possessing activity against protease in a SDS-PAGE and autoradiography assay isolated from the fermentation culture broth of *Streptomyces* sp., Sch 68631 (Chu M. et al., Tetrahedron Letters, 1996, 37, 7229-7232), and Sch 351633, isolated from the fungus *Penicillium griseofulvum*, which demonstrates activity in a scintillation proximity assay (Chu M. et al., Bioorganic and Medicinal Chemistry Letters 9, 1949-1952);

5) Helicase inhibitors (Diana G. D. et al., Compounds, compositions and methods for treatment of hepatitis C, U.S. Pat. No. 5,633,358; Diana G. D. et al., Piperidine derivatives, pharmaceutical compositions thereof and their use in the treatment of hepatitis C, PCT WO 97/36554);

6) Nucleotide polymerase inhibitors and gliotoxin (Ferrari R. et al. Journal of Virology, 1999, 73, 1649-1654), and the natural product cerulenin (Lohmann V. et al., Virology, 1998, 249, 108-118);

- 7) Antisense phosphorothioate oligodeoxynucleotides (S-ODN) complementary to sequence stretches in the 5' non-coding region (NCR) of the virus (Alt M. et al., Hepatology, 1995, 22, 707-717), or nucleotides 326-348 comprising the 3' end of the NCR and nucleotides 371-388 located in the core coding region of the HCV RNA (Alt M. et al., Archives of Virology, 1997, 142, 589-599; Galderisi U. et al., Journal of Cellular Physiology, 1999, 181, 251-257);
- 8) Inhibitors of IRES-dependent translation (Ikeda N et al., Agent for the prevention and treatment of hepatitis C, Japanese Patent Pub. JP-08268890; Kai Y. et al. Prevention and treatment of viral diseases, Japanese Patent Pub. JP-10101591);
- 9) Ribozymes, such as nuclease-resistant ribozymes (Maciejak, D. J. et al., Hepatology 1999, 30, abstract 995) and those disclosed in U.S. Pat. No. 6,043,077 to Barber et al., and U.S. Pat. Nos. 5,869,253 and 5,610,054 to Draper et al.; and
- 10) Nucleoside analogs have also been developed for the treatment of Flaviviridae infections.
- 11) any of the compounds described by Idenix Pharmaceuticals in International Publication Nos. WO 01/90121 and WO 01/92282.
- 12) Compound in other patent applications disclosing the use of certain nucleoside analogs to treat hepatitis C virus include: PCT/CA00/01316 (WO 01/32153; filed Nov. 3, 2000) and PCT/CA01/00197 (WO 01/60315; filed Feb. 19, 2001) filed by BioChem Pharma, Inc. (now Shire Biochem, Inc.); PCT/US02/01531 (WO 02/057425; filed Jan. 18, 2002) and PCT/US02/03086 (WO 02/057287; filed Jan. 18, 2002) filed by Merck & Co., Inc., PCT/EP01/09633 (WO 02/18404; published Aug. 21, 2001) filed by Roche, and PCT Publication Nos. WO 01/79246 (filed Apr. 13, 2001), WO 02/32920 (filed Oct. 18, 2001) and WO 02/48165 by Pharmasset, Ltd.
- 13) PCT Publication No. WO 99/43691 to Emory University, entitled "2'-Fluoronucleosides" discloses the use of certain 2'-fluoronucleosides to treat HCV.
- 14) Other miscellaneous compounds including 1-aminoalkylcyclohexanes (U.S. Pat. No. 6,034,134 to Gold et al.), alkyl lipids (U.S. Pat. No. 5,922,757 to Chojkier et al.), vitamin E and other antioxidants (U.S. Pat. No. 5,922,757 to Chojkier et al.), squalene, amantadine, bile acids (U.S. Pat. No. 5,846,964 to Ozeki et al.), N-(phosphonoacetyl)-L-aspartic acid, (U.S. Pat. No. 5,830,905 to Diana et al.), benzenedicarboxamides (U.S. Pat. No. 5,633,388 to Diana et al.), polyadenylic acid derivatives (U.S. Pat. No. 5,496,546 to Wang et al.), 2',3'-dideoxyinosine (U.S. Pat. No. 5,026,687 to Yarchoan et al.), benzimidazoles (U.S. Pat. No. 5,891,874 to Colacino et al.), plant extracts (U.S. Pat. No. 5,837,257 to Tsai et al., U.S. Pat. No. 5,725,859 to Omer et al., and U.S. Pat. No. 6,056,961), and piperidenes (U.S. Pat. No. 5,830,905 to Diana et al.).
- 15) Other compounds currently in preclinical or clinical development for treatment of hepatitis c virus include: Interleukin-10 by Schering-Plough, IP-501 by Interneuron, Merimebodib (VX-497) by Vertex, AMANTADINE® (Symmetrel) by Endo Labs Solvay, HEPATAZYME® by RPI, IDN-6556 by Idun Pharma., XTL-002 by XTL., HCV/MF59 by Chiron, CIVACIR® (Hepatitis C Immune Globulin) by NABI, LEVOVIRIN® by ICN/Ribapharm, VIRAMIDINE® by ICN/Ribapharm, ZADAXIN® (thymosin alpha-1) by Sci Clone, thymosin plus pegylated interferon by Sci Clone,

CEPLENE® (histamine dihydrochloride) by Maxim, VX 950/LY 570310 by Vertex/Eli Lilly, ISIS 14803 by Isis Pharmaceutical/Elan, IDN-6556 by Idun Pharmaceuticals, Inc., JTK 003 by AKROS Pharma, BILN-2061 by Boehringer Ingelheim, CellCept (mycophenolate mofetil) by Roche, T67, a β -tubulin inhibitor, by Tularik, a therapeutic vaccine directed to E2 by Innogenetics, FK788 by Fujisawa Healthcare, Inc., IdB 1016 (Siliphos, oral silybin-phosphatidylcholine phytosome), RNA replication inhibitors (VP50406) by ViroPharma/Wyeth, therapeutic vaccine by Intercell, therapeutic vaccine by Epimmune/Genencor, IRES inhibitor by Anadys, ANA 245 and ANA 246 by Anadys, immunotherapy (Therapore) by Avant, protease inhibitor by Corvas/SChering, helicase inhibitor by Vertex, fusion inhibitor by Trimeris, T cell therapy by CellExSys, polymerase inhibitor by Biocryst, targeted RNA chemistry by PTC Therapeutics, Dication by Immtech, Int., protease inhibitor by Agouron, protease inhibitor by Chiron/Medivir, antisense therapy by AVI BioPharma, antisense therapy by Hybridon, hemopurifier by Aethlon Medical, therapeutic vaccine by Merix, protease inhibitor by Bristol-Myers Squibb/Axys, Chron-VacC, a therapeutic vaccine, by Tripep, UT 231B by United Therapeutics, protease, helicase and polymerase inhibitors by Genelabs Technologies, IRES inhibitors by Immusol, R803 by Rigel Pharmaceuticals, INFERGEN® (interferon alphacon-1) by InterMune, OMNIFERON® (natural interferon) by Viragen, ALBUFERON® by Human Genome Sciences, REBIF® (interferon beta-1a) by Ares-Serono, Omega Interferon by BioMedicine, Oral Interferon Alpha by Amarillo Biosciences, interferon gamma, interferon tau, and Interferon gamma-1b by InterMune.

VI. Pharmaceutical Compositions

Hosts, including humans, infected with *pestivirus*, *flavivirus*, HCV infection, or any other condition described herein, or another organism replicating through a RNA-dependent RNA viral polymerase, or for treating any other disorder described herein, can be treated by administering to the patient an effective amount of the active compound or a pharmaceutically acceptable prodrug or salt thereof in the presence of a pharmaceutically acceptable carrier or diluent. The active materials can be administered by any appropriate route, for example, orally, parenterally, intravenously, intradermally, subcutaneously, or topically, in liquid or solid form.

A preferred dose of the compound for *pestivirus*, *flavivirus* or HCV will be in the range from about 1 to 50 mg/kg, preferably 1 to 20 mg/kg, of body weight per day, more generally 0.1 to about 100 mg per kilogram body weight of the recipient per day. Lower doses may be preferable, for example doses of 0.5-100 mg, 0.5-50 mg, 0.5-10 mg, or 0.5-5 mg per kilogram body weight per day. Even lower doses may be useful, and thus ranges can include from 0.1-0.5 mg per kilogram body weight per day. The effective dosage range of the pharmaceutically acceptable salts and prodrugs can be calculated based on the weight of the parent nucleoside to be delivered. If the salt or prodrug exhibits activity in itself, the effective dosage can be estimated as above using the weight of the salt or prodrug, or by other means known to those skilled in the art.

The compound is conveniently administered in unit any suitable dosage form, including but not limited to one containing 7 to 3000 mg, preferably 70 to 1400 mg of active ingredient per unit dosage form. An oral dosage of 50-1000 mg is usually convenient, including in one or multiple dosage

forms of 50, 100, 200, 250, 300, 400, 500, 600, 700, 800, 900 or 1000 mgs. Lower doses may be preferable, for example from 10-100 or 1-50 mg. Also contemplated are doses of 0.1-50 mg, or 0.1-20 mg or 0.1-10.0 mg. Furthermore, lower doses may be utilized in the case of administration by a non-oral route, as, for example, by injection or inhalation.

Ideally the active ingredient should be administered to achieve peak plasma concentrations of the active compound of from about 0.2 to 70 μ M, preferably about 1.0 to 10 μ M. This may be achieved, for example, by the intravenous injection of a 0.1 to 5% solution of the active ingredient, optionally in saline, or administered as a bolus of the active ingredient.

The concentration of active compound in the drug composition will depend on absorption, inactivation and excretion rates of the drug as well as other factors known to those of skill in the art. It is to be noted that dosage values will also vary with the severity of the condition to be alleviated. It is to be further understood that for any particular subject, specific dosage regimens should be adjusted over time according to the individual need and the professional judgment of the person administering or supervising the administration of the compositions, and that the concentration ranges set forth herein are exemplary only and are not intended to limit the scope or practice of the claimed composition. The active ingredient may be administered at once, or may be divided into a number of smaller doses to be administered at varying intervals of time.

A preferred mode of administration of the active compound is oral. Oral compositions will generally include an inert diluent or an edible carrier. They may be enclosed in gelatin capsules or compressed into tablets. For the purpose of oral therapeutic administration, the active compound can be incorporated with excipients and used in the form of tablets, troches, or capsules. Pharmaceutically compatible binding agents, and/or adjuvant materials can be included as part of the composition.

The tablets, pills, capsules, troches and the like can contain any of the following ingredients, or compounds of a similar nature: a binder such as microcrystalline cellulose, gum tragacanth or gelatin; an excipient such as starch or lactose, a disintegrating agent such as alginic acid, Primogel, or corn starch; a lubricant such as magnesium stearate or Sterotes; a glidant such as colloidal silicon dioxide; a sweetening agent such as sucrose or saccharin; or a flavoring agent such as peppermint, methyl salicylate, or orange flavoring. When the dosage unit form is a capsule, it can contain, in addition to material of the above type, a liquid carrier such as a fatty oil. In addition, dosage unit forms can contain various other materials which modify the physical form of the dosage unit, for example, coatings of sugar, shellac, or other enteric agents.

The compound can be administered as a component of an elixir, suspension, syrup, wafer, chewing gum or the like. A syrup may contain, in addition to the active compounds, sucrose as a sweetening agent and certain preservatives, dyes and colorings and flavors.

The compound or a pharmaceutically acceptable prodrug or salts thereof can also be mixed with other active materials that do not impair the desired action, or with materials that supplement the desired action, such as antibiotics, antifungals, anti-inflammatories, or other antivirals, including other nucleoside compounds. Solutions or suspensions used for parenteral, intradermal, subcutaneous, or topical application can include the following components: a sterile diluent such as water for injection, saline solution, fixed oils, polyethylene glycols, glycerine, propylene glycol or other synthetic solvents; antibacterial agents such as benzyl alcohol or methyl parabens; antioxidants such as ascorbic acid or sodium

bisulfite; chelating agents such as ethylenediaminetetraacetic acid; buffers such as acetates, citrates or phosphates and agents for the adjustment of tonicity such as sodium chloride or dextrose. The parental preparation can be enclosed in ampoules, disposable syringes or multiple dose vials made of glass or plastic.

If administered intravenously, preferred carriers are physiological saline or phosphate buffered saline (PBS).

In a preferred embodiment, the active compounds are prepared with carriers that will protect the compound against rapid elimination from the body, such as a controlled release formulation, including implants and microencapsulated delivery systems. biodegradable, biocompatible polymers can be used, such as ethylene vinyl acetate, polyanhydrides, polyglycolic acid, collagen, polyorthoesters and polylactic acid. Methods for preparation of such formulations will be apparent to those skilled in the art. The materials can also be obtained commercially from Alza Corporation.

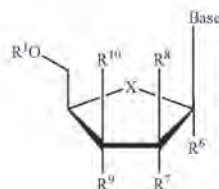
Liposomal suspensions (including liposomes targeted to infected cells with monoclonal antibodies to viral antigens) are also preferred as pharmaceutically acceptable carriers. These may be prepared according to methods known to those skilled in the art, for example, as described in U.S. Pat. No. 4,522,811 (which is incorporated herein by reference in its entirety). For example, liposome formulations may be prepared by dissolving appropriate lipid(s) (such as stearyl phosphatidyl ethanolamine, stearyl phosphatidyl choline, arachidoyl phosphatidyl choline, and cholesterol) in an inorganic solvent that is then evaporated, leaving behind a thin film of dried lipid on the surface of the container. An aqueous solution of the active compound or its monophosphate, diphosphate, and/or triphosphate derivatives is then introduced into the container. The container is then swirled by hand to free lipid material from the sides of the container and to disperse lipid aggregates, thereby forming the liposomal suspension.

VII. Processes for the Preparation of Active Compounds

The nucleosides of the present invention can be synthesized by any means known in the art. In particular, the synthesis of the present nucleosides can be achieved by either alkylating the appropriately modified sugar, followed by glycosylation or glycosylation followed by alkylation of the nucleoside. The following non-limiting embodiments illustrate some general methodology to obtain the nucleosides of the present invention.

A. General Synthesis of 1'-C-Branched Nucleosides

1'-C-Branched ribonucleosides of the following structure:



wherein Base, R^1 , R^2 , R^3 , R^4 , R^5 , R^6 , R^7 , R^8 , R^9 , R^{10} , Y , W^1 , W^2 , W^3 , X , X^1 , X^2 and X^3 are as defined herein can be prepared by one of the following general methods.

1) Modification from the Lactone

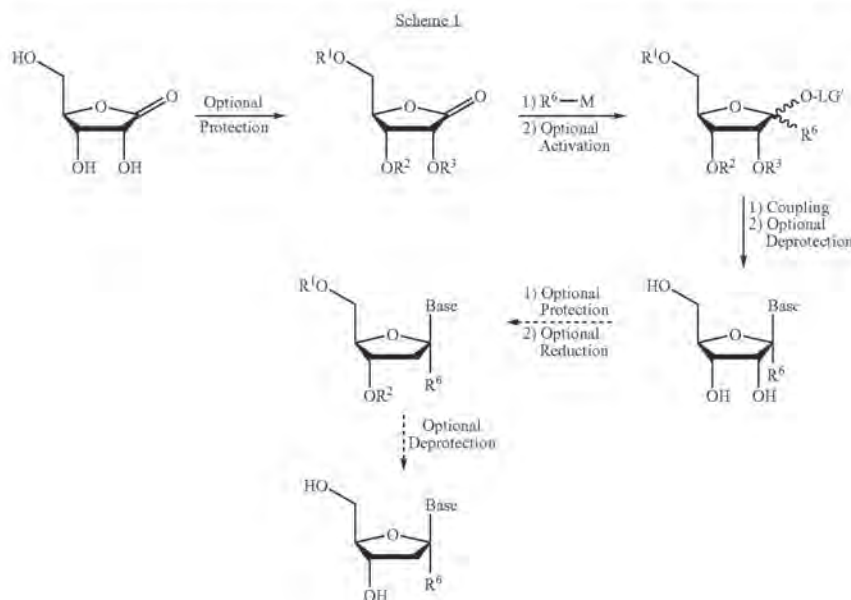
The key starting material for this process is an appropriately substituted lactone. The lactone can be purchased or can

be prepared by any known means including standard epimerization, substitution and cyclization techniques. The lactone can be optionally protected with a suitable protecting group, preferably with an acyl or silyl group, by methods well known to those skilled in the art, as taught by Greene et al. *Protective Groups in Organic Synthesis*, John Wiley and Sons, Second Edition, 1991. The protected lactone can then be coupled with a suitable coupling agent, such as an organometallic carbon nucleophile, such as a Grignard reagent, an organolithium, lithium dialkylcopper or R^6-SiMe_3 in TBAF with the appropriate non-protic solvent at a suitable temperature, to give the 1'-alkylated sugar.

The optionally activated sugar can then be coupled to the BASE by methods well known to those skilled in the art, as taught by Townsend *Chemistry of Nucleosides and Nucleotides*, Plenum Press, 1994. For example, an acylated sugar can be coupled to a silylated base with a Lewis acid, such as tin tetrachloride, titanium tetrachloride or trimethylsilyltriflate in the appropriate solvent at a suitable temperature.

Subsequently, the nucleoside can be deprotected by methods well known to those skilled in the art, as taught by Greene et al. *Protective Groups in Organic Synthesis*, John Wiley and Sons, Second Edition, 1991.

In a particular embodiment, the 1'-C-branched ribonucleoside is desired. The synthesis of a ribonucleoside is shown in Scheme 1. Alternatively, deoxyribo-nucleoside is desired. To obtain these nucleosides, the formed ribonucleoside can optionally be protected by methods well known to those skilled in the art, as taught by Greene et al. *Protective Groups in Organic Synthesis*, John Wiley and Sons, Second Edition, 1991, and then the 2'-OH can be reduced with a suitable reducing agent. Optionally, the 2'-hydroxyl can be activated to facilitate reduction; i.e. via the Barton reduction.



2. Alternative Method for the Preparation of 1'-C-Branched Nucleosides

The key starting material for this process is an appropriately substituted hexose. The hexose can be purchased or can be prepared by any known means including standard epimerization (e.g. via alkaline treatment), substitution and coupling

techniques. The hexose can be selectively protected to give the appropriate hexa-furanose, as taught by Townsend *Chemistry of Nucleosides and Nucleotides*, Plenum Press, 1994.

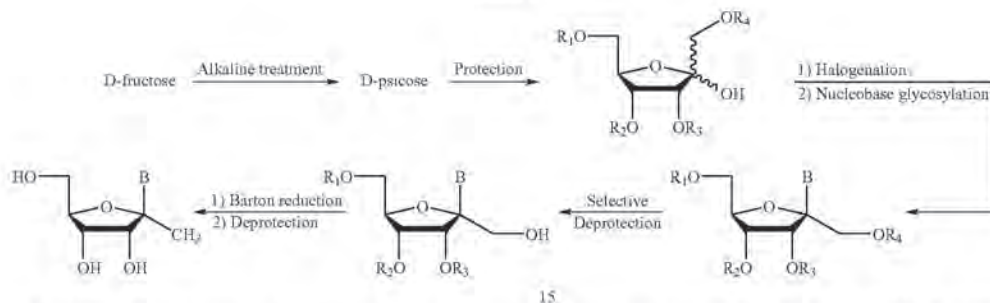
The 1'-hydroxyl can be optionally activated to a suitable leaving group such as an acyl group or a halogen via acylation or halogenation, respectively. The optionally activated sugar can then be coupled to the BASE by methods well known to those skilled in the art, as taught by Townsend *Chemistry of Nucleosides and Nucleotides*, Plenum Press, 1994. For example, an acylated sugar can be coupled to a silylated base with a Lewis acid, such as tin tetrachloride, titanium tetrachloride or trimethylsilyltriflate in the appropriate solvent at a suitable temperature. Alternatively, a halo-sugar can be coupled to a silylated base with the presence of trimethylsilyltriflate.

The 1'-CH₂-OH, if protected, can be selectively deprotected by methods well known in the art. The resultant primary hydroxyl can be functionalized to yield various C-branched nucleosides. For example, the primary hydroxyl can be reduced to give the methyl, using a suitable reducing agent. Alternatively, the hydroxyl can be activated prior to reduction to facilitate the reaction; i.e. via the Barton reduction. In an alternate embodiment, the primary hydroxyl can be oxidized to the aldehyde, then coupled with a carbon nucleophile, such as a Grignard reagent, an organolithium, lithium dialkylcopper or R^6-SiMe_3 in TBAF with the appropriate non-protic solvent at a suitable temperature.

In a particular embodiment, the 1'-C-branched ribonucleoside is desired. The synthesis of a ribonucleoside is shown in Scheme 2. Alternatively, deoxyribo-nucleoside is desired. To obtain these nucleosides, the formed ribonucleoside can

optionally be protected by methods well known to those skilled in the art, as taught by Greene et al. *Protective Groups in Organic Synthesis*, John Wiley and Sons, Second Edition, 1991, and then the 2'-OH can be reduced with a suitable reducing agent. Optionally, the 2'-hydroxyl can be activated to facilitate reduction; i.e. via the Barton reduction.

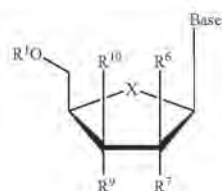
Scheme 2



In addition, the L-enantiomers corresponding to the compounds of the invention can be prepared following the same general methods (1 or 2), beginning with the corresponding L-sugar or nucleoside L-enantiomer as starting material.

B. General Synthesis of 2'-C-Branched Nucleosides

2'-C-Branched ribonucleosides of the following structure:



wherein Base, R^1 , R^2 , R^3 , R^4 , R^5 , R^6 , R^7 , R^9 , R^{10} , Y, W^1 , W^2 , W^3 , X, X^1 , X^2 and X^3 are as defined herein can be prepared by one of the following general methods.

1. Glycosylation of the Nucleobase with an Appropriately Modified Sugar

The key starting material for this process is an appropriately substituted sugar with a 2'-OH and 2'-H, with the appropriate leaving group (LG), for example an acyl group or a halogen. The sugar can be purchased or can be prepared by any known means including standard epimerization, substitution, oxidation and reduction techniques. The substituted sugar can then be oxidized with the appropriate oxidizing agent in a compatible solvent at a suitable temperature to yield the 2'-modified sugar. Possible oxidizing agents are Jones reagent (a mixture of chromic acid and sulfuric acid), Collins's reagent (dipyridine Cr(VI) oxide, Corey's reagent (pyridinium chlorochromate), pyridinium dichromate, acid dichromate, potassium permanganate, MnO_2 , ruthenium tetroxide, phase transfer catalysts such as chromic acid or permanganate supported on a polymer, Cl_2 -pyridine, H_2O_2 -

ammonium molybdate, $NaBrO_2$ -CAN, $NaOCl$ in HOAc, copper chromite, copper oxide, Raney nickel, palladium acetate, Meerwin-Pondorf-Verley reagent (aluminum t-butoxide with another ketone) and N-bromosuccinimide.

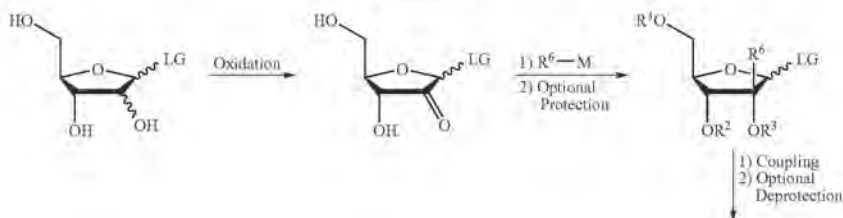
Then coupling of an organometallic carbon nucleophile, such as a Grignard reagent, an organolithium, lithium dialkylcopper or R^6-SiMe_3 in TBAF with the ketone with the appropriate non-protic solvent at a suitable temperature, yields the 2'-alkylated sugar. The alkylated sugar can be optionally protected with a suitable protecting group, preferably with an acyl or silyl group, by methods well known to those skilled in the art, as taught by Greene et al. *Protective Groups in Organic Synthesis*, John Wiley and Sons, Second Edition, 1991.

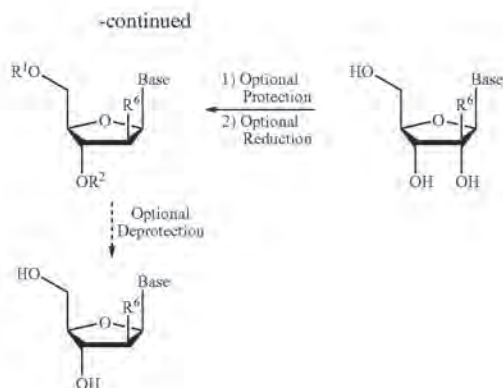
The optionally protected sugar can then be coupled to the BASE by methods well known to those skilled in the art, as taught by Townsend *Chemistry of Nucleosides and Nucleotides*, Plenum Press, 1994. For example, an acylated sugar can be coupled to a silylated base with a Lewis acid, such as tin tetrachloride, titanium tetrachloride or trimethylsilyltriflate in the appropriate solvent at a suitable temperature. Alternatively, a halo-sugar can be coupled to a silylated base with the presence of trimethylsilyltriflate.

Subsequently, the nucleoside can be deprotected by methods well known to those skilled in the art, as taught by Greene et al. *Protective Groups in Organic Synthesis*, John Wiley and Sons, Second Edition, 1991.

In a particular embodiment, the 2'-C-branched ribonucleoside is desired. The synthesis of a ribonucleoside is shown in Scheme 3. Alternatively, deoxyribo-nucleoside is desired. To obtain these nucleosides, the formed ribonucleoside can optionally be protected by methods well known to those skilled in the art, as taught by Greene et al. *Protective Groups in Organic Synthesis*, John Wiley and Sons, Second Edition, 1991, and then the 2'-OH can be reduced with a suitable reducing agent. Optionally, the 2'-hydroxyl can be activated to facilitate reduction; i.e. via the Barton reduction.

Scheme 3





2. Modification of a Pre-Formed Nucleoside

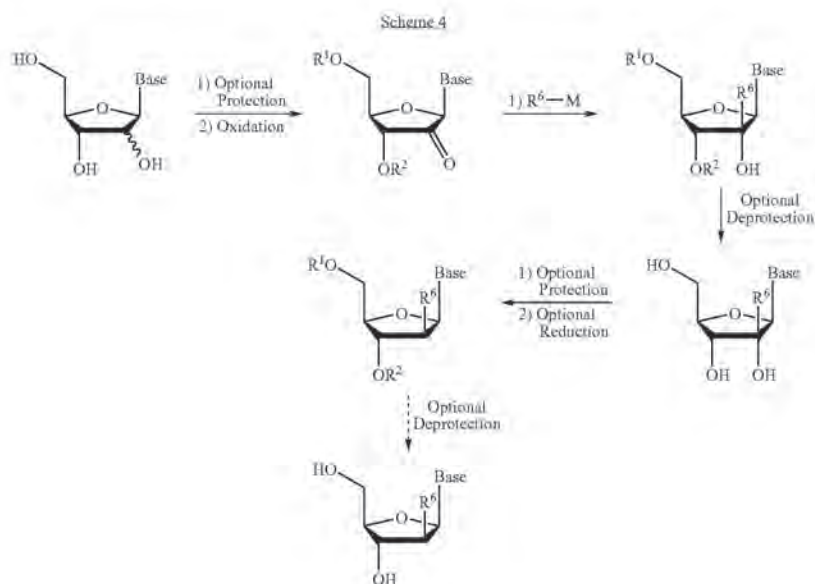
The key starting material for this process is an appropriately substituted nucleoside with a 2'-OH and 2'-H. The nucleoside can be purchased or can be prepared by any known means including standard coupling techniques. The nucleoside can be optionally protected with suitable protecting groups, preferably with acyl or silyl groups, by methods well known to those skilled in the art, as taught by Greene et al. *Protective Groups in Organic Synthesis*, John Wiley and Sons, Second Edition, 1991.

The appropriately protected nucleoside can then be oxidized with the appropriate oxidizing agent in a compatible solvent at a suitable temperature to yield the 2'-modified sugar. Possible oxidizing agents are Jones reagent (a mixture of chromic acid and sulfuric acid), Collins's reagent (dipyridine Cr(VI) oxide, Corey's reagent (pyridinium chlorochromate), pyridinium dichromate, acid dichromate, potassium permanganate, MnO_2 , ruthenium tetroxide, phase transfer catalysts such as chromic acid or permanganate supported on

a polymer, Cl_2 -pyridine, H_2O_2 -ammonium molybdate, NaBrO_2 -CAN, NaOCl in HOAc, copper chromite, copper oxide, Raney nickel, palladium acetate, Meerwin-Pondorf-Verley reagent (aluminum t-butoxide with another ketone) and N-bromosuccinimide.

Subsequently, the nucleoside can be deprotected by methods well known to those skilled in the art, as taught by Greene et al. *Protective Groups in Organic Synthesis*, John Wiley and Sons, Second Edition, 1991.

In a particular embodiment, the 2'-C-branched ribonucleoside is desired. The synthesis of a ribonucleoside is shown in Scheme 4. Alternatively, deoxyribo-nucleoside is desired. To obtain these nucleosides, the formed ribonucleoside can optionally be protected by methods well known to those skilled in the art, as taught by Greene et al. *Protective Groups in Organic Synthesis*, John Wiley and Sons, Second Edition, 1991, and then the 2'-OH can be reduced with a suitable reducing agent. Optionally, the 2'-hydroxyl can be activated to facilitate reduction; i.e. via the Barton reduction.

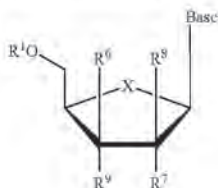


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In another embodiment of the invention, the L-enantiomers are desired. Therefore, the L-enantiomers can be corresponding to the compounds of the invention can be prepared following the same foregoing general methods, beginning with the corresponding L-sugar or nucleoside L-enantiomer as starting material.

C. General Synthesis of 3'-C-Branched Nucleosides

3'-C-Branched ribonucleosides of the following structure:



wherein Base, R¹, R², R³, R⁴, R⁵, R⁶, R⁷, R⁸, R⁹, Y, W¹, W², W³, X, X¹, X² and X³ are as defined herein can be prepared by one of the following general methods.

1 Glycosylation of the Nucleobase with an Appropriately Modified Sugar

The key starting material for this process is an appropriately substituted sugar with a 3'-OH and 3'-H, with the appropriate leaving group (LG), for example an acyl group or halogen. The sugar can be purchased or can be prepared by any known means including standard epimerization, substitution, oxidation and reduction techniques. The substituted sugar can then be oxidized with the appropriate oxidizing agent in a compatible solvent at a suitable temperature to yield the 3'-modified sugar. Possible oxidizing agents are Jones reagent (a mixture of chromic acid and sulfuric acid), Collins's reagent (dipyridine Cr(VI) oxide), Corey's reagent (pyridinium chlorochromate), pyridinium dichromate, acid dichromate, potassium permanganate, MnO₂, ruthenium tetroxide, phase transfer catalysts such as chromic acid or permanganate supported on a polymer, Cl₂-pyridine, H₂O₂-

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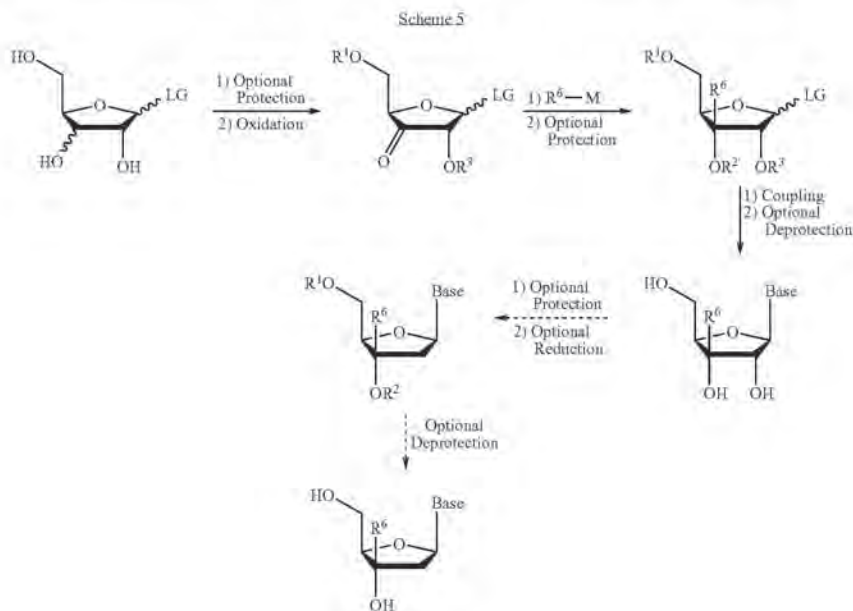
ammonium molybdate, NaBrO_2 —CAN, NaOCl in HOAc, copper chromite, copper oxide, Raney nickel, palladium acetate, Meerwin-Pondorf-Verley reagent (aluminum t-butoxide with another ketone) and N-bromosuccinimide.

Then coupling of an organometallic carbon nucleophile, such as a Grignard reagent, an organolithium, lithium dialkylcopper or R^6-SiMe_3 in TBAF with the ketone with the appropriate non-protic solvent at a suitable temperature, yields the 3'-C-branched sugar. The 3'-C-branched sugar can be optionally protected with a suitable protecting group, preferably with an acyl or silyl group, by methods well known to those skilled in the art, as taught by Greene et al. *Protective Groups in Organic Synthesis*, John Wiley and Sons, Second Edition, 1991.

The optionally protected sugar can then be coupled to the BASE by methods well known to those skilled in the art, as taught by Townsend *Chemistry of Nucleosides and Nucleotides*, Plenum Press, 1994. For example, an acylated sugar can be coupled to a silylated base with a Lewis acid, such as tin tetrachloride, titanium tetrachloride or trimethylsilyltriflate in the appropriate solvent at a suitable temperature. Alternatively, a halo-sugar can be coupled to a silylated base with the presence of trimethylsilyltriflate.

Subsequently, the nucleoside can be deprotected by methods well known to those skilled in the art, as taught by Greene et al. *Protective Groups in Organic Synthesis*, John Wiley and Sons, Second Edition, 1991.

In a particular embodiment, the 3'-C-branched ribonucleoside is desired. The synthesis of a ribonucleoside is shown in Scheme 5. Alternatively, deoxyribo-nucleoside is desired. To obtain these nucleosides, the formed ribonucleoside can optionally be protected by methods well known to those skilled in the art, as taught by Greene et al. *Protective Groups in Organic Synthesis*, John Wiley and Sons, Second Edition, 1991, and then the 2'-OH can be reduced with a suitable reducing agent. Optionally, the 2'-hydroxyl can be activated to facilitate reduction: i.e. via the Barton reduction.



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2. Modification of a Pre-Formed Nucleoside

The key starting material for this process is an appropriately substituted nucleoside with a 3'-OH and 3'-H. The nucleoside can be purchased or can be prepared by any known means including standard coupling techniques. The nucleoside can be optionally protected with suitable protecting groups, preferably with acyl or silyl groups, by methods well known to those skilled in the art, as taught by Greene et al. *Protective Groups in Organic Synthesis*, John Wiley and Sons, Second Edition, 1991.

The appropriately protected nucleoside can then be oxidized with the appropriate oxidizing agent in a compatible solvent at a suitable temperature to yield the 2'-modified sugar. Possible oxidizing agents are Jones reagent (a mixture of chromic acid and sulfuric acid), Collins's reagent (dipyridine Cr(VI) oxide, Corey's reagent (pyridinium chlorochromate), pyridinium dichromate, acid dichromate, potassium permanganate, MnO₂, ruthenium tetroxide, phase transfer catalysts such as chromic acid or permanganate supported on a polymer, Cl₂-pyridine, H₂O₂-ammonium molybdate, NaBrO₂-CAN, NaOCl in HOAc, copper chromite, copper oxide, Raney nickel, palladium acetate, Meerwin-Pondorf-Verley reagent (aluminum t-butoxide with another ketone) and N-bromosuccinimide.

Subsequently, the nucleoside can be deprotected by methods well known to those skilled in the art, as taught by Greene et al. *Protective Groups in Organic Synthesis*, John Wiley and Sons, Second Edition, 1991.

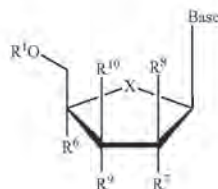
In a particular embodiment, the 3'-C-branched ribonucleoside is desired. The synthesis of a ribonucleoside is shown in Scheme 6. Alternatively, deoxyribo-nucleoside is desired. To obtain these nucleosides, the formed ribonucleoside can optionally be protected by methods well known to those skilled in the art, as taught by Greene et al. *Protective Groups in Organic Synthesis*, John Wiley and Sons, Second Edition, 1991, and then the 2'-OH can be reduced with a suitable reducing agent. Optionally, the 2'-hydroxyl can be activated to facilitate reduction; i.e. via the Barton reduction.

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In another embodiment of the invention, the L-enantiomers are desired. Therefore, the L-enantiomers can be corresponding to the compounds of the invention can be prepared following the same foregoing general methods, beginning with the corresponding L-sugar or nucleoside L-enantiomer as starting material.

D. General Synthesis of 4'-C-Branched Nucleosides

4'-C-Branched ribonucleosides of the following structure:

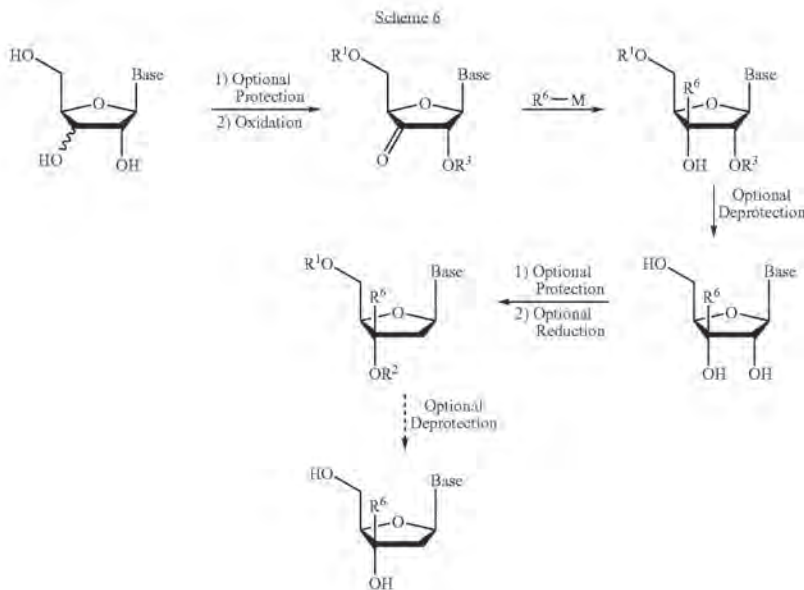


wherein Base, R¹, R², R³, R⁴, R⁵, R⁶, R⁷, R⁸, R⁹, R¹⁰, Y, W¹, W², W³, X, X¹, X² and X³ are as defined herein can be prepared by one of the following general methods.

1. Modification from the Pentodialdo-furanose

The key starting material for this process is an appropriately substituted pentodialdo-furanose. The pentodialdo-furanose can be purchased or can be prepared by any known means including standard epimerization, substitution and cyclization techniques.

In a preferred embodiment, the pentodialdo-furanose is prepared from the appropriately substituted hexose. The hexose can be purchased or can be prepared by any known means including standard epimerization (e.g. via alkaline treatment), substitution and coupling techniques. The hexose can be either in the furanose form, or cyclized via any means known in the art, such as methodology taught by Townsend



Chemistry of Nucleosides and Nucleotides, Plenum Press, 1994, preferably by selectively protecting the hexose, to give the appropriate hexafuranose.

The 4'-hydroxymethylene of the hexafuranose then can be oxidized with the appropriate oxidizing agent in a compatible solvent at a suitable temperature to yield the 4'-aldo-modified sugar. Possible oxidizing agents are Swern reagents, Jones reagent (a mixture of chromic acid and sulfuric acid), Collins's reagent (dipyridine Cr(VI) oxide, Corey's reagent (pyridinium chlorochromate), pyridinium dichromate, acid dichromate, potassium permanganate, MnO_2 , ruthenium tetroxide, phase transfer catalysts such as chromic acid or permanganate supported on a polymer, Cl_2 -pyridine, H_2O_2 -ammonium molybdate, NaBrO_2 -CAN, NaOCl in HOAc, copper chromite, copper oxide, Raney nickel, palladium acetate, Meerwin-Pondorf-Verley reagent (aluminum t-butoxide with another ketone) and N-bromosuccinimide, though preferably using H_3PO_4 , DMSO and DCC in a mixture of benzene/pyridine at room temperature.

Then, the pentodialdo-furanose can be optionally protected with a suitable protecting group, preferably with an acyl or silyl group, by methods well known to those skilled in the art, as taught by Greene et al. *Protective Groups in Organic Synthesis*, John Wiley and Sons, Second Edition, 1991. In the presence of a base, such as sodium hydroxide, the protected pentodialdo-furanose can then be coupled with a suitable electrophilic alkyl, halogeno-alkyl (i.e. CF_3), alkenyl or alkynyl (i.e. allyl), to obtain the 4'-alkylated sugar. Alternatively, the protected pentodialdo-furanose can be coupled with the corresponding carbonyl, such as formaldehyde, in the presence of a base, such as sodium hydroxide, with the appropriate polar solvent, such as dioxane, at a suitable temperature, which can then be reduced with an appropriate reducing agent to give the 4'-alkylated sugar. In one embodiment, the reduction is carried out using PhOC(S)Cl , DMAP, preferably in acetonitrile at room temperature, followed by treatment of ACCN and TMSS refluxed in toluene.

The optionally activated sugar can then be coupled to the BASE by methods well known to those skilled in the art, as taught by Townsend *Chemistry of Nucleosides and Nucleotides*, Plenum Press, 1994. For example, an acylated sugar can be coupled to a silylated base with a Lewis acid, such as tin tetrachloride, titanium tetrachloride or trimethylsilyltriflate in the appropriate solvent at a suitable temperature.

Subsequently, the nucleoside can be deprotected by methods well known to those skilled in the art, as taught by Greene et al. *Protective Groups in Organic Synthesis*, John Wiley and Sons, Second Edition, 1991.

In a particular embodiment, the 4'-C-branched ribonucleoside is desired. Alternatively, deoxyribonucleoside is desired. To obtain these deoxyribo-nucleosides, a formed ribonucleoside can optionally be protected by methods well known to those skilled in the art, as taught by Greene et al. *Protective Groups in Organic Synthesis*, John Wiley and Sons, Second Edition, 1991, and then the 2'-OH can be reduced with a suitable reducing agent. Optionally, the 2'-hydroxyl can be activated to facilitate reduction; i.e. via the Barton reduction.

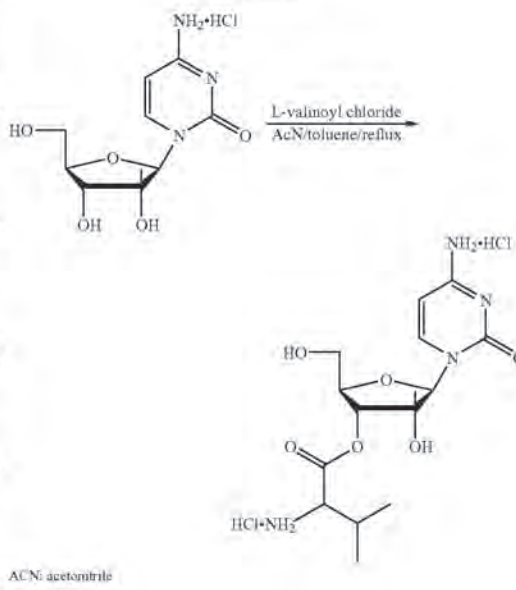
In another embodiment of the invention, the L-enantiomers are desired. Therefore, the L-enantiomers can be corresponding to the compounds of the invention can be prepared following the same foregoing general methods, beginning with the corresponding L-pentodialdo-furanose as starting material.

E. General Synthesis of 2' and/or 3'-Prodrugs

The key starting material for this process is an appropriately substituted 1', 2', 3' or 4'-branched β -D or β -L nucleosides. The branched nucleoside can be purchased or can be prepared by any known means including the techniques disclosed herein. The branched nucleoside can be optionally protected with a suitable protecting group, preferably with a silyl group, by methods well known to those skilled in the art, as taught by Greene et al. *Protective Groups in Organic Synthesis*, John Wiley and Sons, Second Edition, 1991. The protected branched nucleoside can then be coupled with a suitable acyl donor, such as an acyl chloride and/or an acyl anhydride with the appropriate protic or aprotic solvent at a suitable temperature, to give the 2' and/or 3' prodrug of 1', 2', 3' or 4'-branched β -D or β -L nucleoside. Alternatively, the protected branched nucleoside can then be coupled with a suitable acyl, such as a carboxylic acid, such as alkanolic acid and/or amino acid residue, optionally with a suitable coupling agent, with the appropriate aprotic solvent at a suitable temperature, to give the 2' and/or 3' prodrug of 1', 2', 3' or 4'-branched β -D or β -L nucleoside. Possible coupling reagents are any reagents that promote coupling, including but are not limiting to, Mitsunobu reagents (e.g. diisopropyl azodicarboxylate and diethyl azodicarboxylate) with triphenylphosphine or various carbodiimides.

For example, simple amino-alcohols can be esterified using acid chlorides in refluxing acetonitrile-benzene mixture (See Scheme 7 below: *Synthetic Communications*, 1978, 8(5), 327-333; hereby incorporated by reference). Alternatively, esterification can be achieved using an anhydride, as described in *J. Am. Chem. Soc.*, 1999, 121(24), 5661-5664, which is hereby incorporated by reference. See FIGS. 2, 3 and 4.

Scheme 7



The present invention is described by way of illustration, in the following examples. It will be understood by one of ordinary skill in the art that these examples are in no way limiting and that variations of detail can be made without departing from the spirit and scope of the present invention.

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EXAMPLE 1

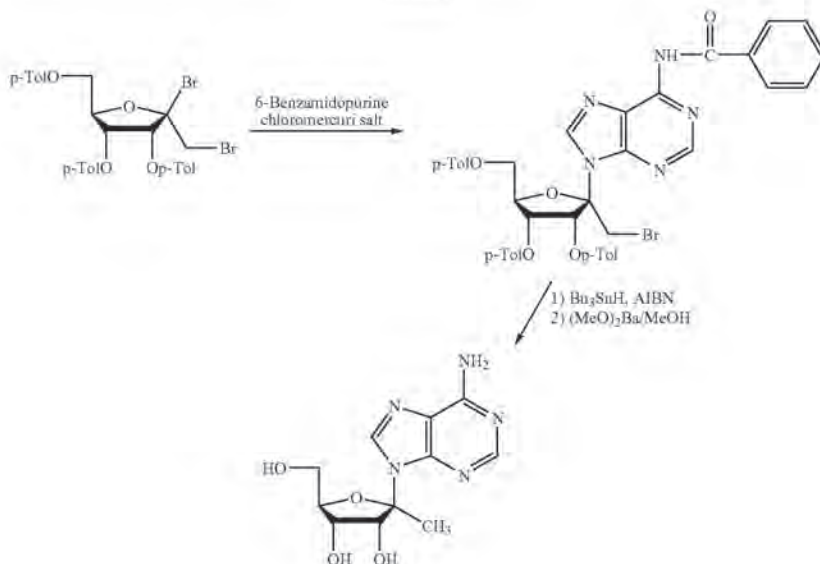
PREPARATION OF 1'-C-METHYLRIBOAD-
ENINE VIA 6-AMINO-9-(1-DEOXY-β-D-PSICO-
FURANOSYL)PURINE

Melting points were determined on a Mel-temp 11 apparatus and are uncorrected. NMR spectra were recorded on a Bruker 400 AMX spectrometer at 400 MHz for ^1H NMR and 100 MHz for ^{13}C NMR with TMS as internal standard. Chemical shifts (δ) are reported in parts per million (ppm), and signals are reported as s (singlet), d (doublet), t (triplet), q (quartet), m (multiplet), or bs (broad singlet). IR spectra were measured on a Nicolet 510P FT-IR spectrometer. Mass spectra were recorded on a Micromass Autospec high-resolution mass spectrometer. TLC were performed on Uniplates (silica gel) purchased from Analtech Co. Column chromatography was performed using either silica gel-60 (220-440 mesh) for flash chromatography or silica gel G (TLC grade, >440 mesh) for vacuum flash column chromatography. UV spectra were obtained on a Beckman DU 650 spectrophotometer. Elemental analysis was performed by Atlantic Microlab, Inc., Norcross, Ga., or Galbraith Laboratories, Inc., Knoxville, Tenn. HPLC was performed with a Waters HPLC system (Millipore Corporation, Milford, Mass.) equipped with a Model 600 controller, a Model 996 photodiode array detector and a Model 717 plus autosampler. Millennium 2010 software was used for system control, data acquisition and processing. A chiraliser polarimetric detector, Perkin-Elmer Model 241MC polarimeter (Wilton, Conn.), was used for the determination of optical rotations.

Synthesis of 1'-C-methylribo-8-methyladenine

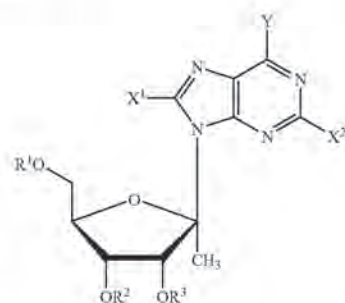
The title compound could also be prepared according to a published procedure (J. Farkas, and F. Sorm, "Nucleic acid components and their analogues. XCIV. Synthesis of 6-amino-9-(1-deoxy-β-D-psicofuranosyl)purine" *Collect. Czech. Chem. Commun.* 1967, 32, 2663-2667; J. Farkas", *Collect. Czech. Chem. Commun.* 1966, 31, 1535) (Scheme 8).

Scheme 8



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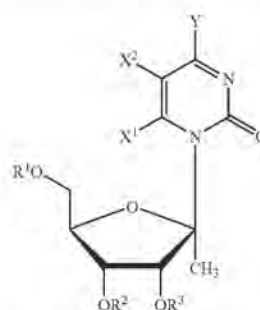
In a similar manner, but using the appropriate sugar and purine bases, the following nucleosides of Formula XXIV are prepared.



(XXIV)

wherein R^1 , R^2 , R^3 , X^1 , X^2 , and Y are defined in Table 1.

Alternatively, the following nucleosides of Formula XXV are prepared, using the appropriate sugar and pyrimidine bases.

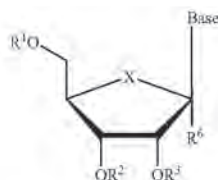


(XXV)

wherein R^1 , R^2 , R^3 , X^1 , X^2 , and Y are defined in Table 2.

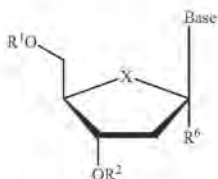
133

Alternatively, the following nucleosides of Formula XXVI are prepared, using the appropriate sugar and pyrimidine or purine bases.



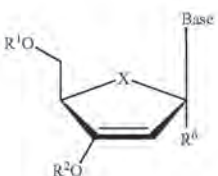
wherein R^1 , R^2 , R^3 , R^6 , X, and Base are defined in Table 3.

Alternatively, the following nucleosides of Formula XXVII are prepared, using the appropriate sugar and pyrimidine or purine bases.



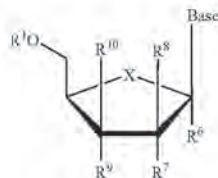
wherein R^1 , R^2 , R^6 , X, and Base are defined in Table 4.

Alternatively, the following nucleosides of Formula XXVIII are prepared, using the appropriate sugar and pyrimidine or purine bases.



wherein R^1 , R^2 , R^6 , X, and Base are defined in Table 5.

Alternatively, the following nucleosides of Formula XXIX are prepared, using the appropriate sugar and pyrimidine or purine bases.



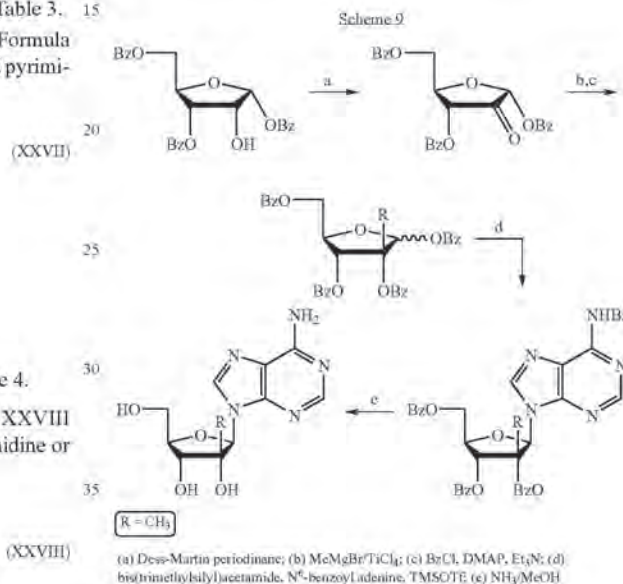
wherein R^1 , R^6 , R^7 , R^8 , X, R^9 , R^{10} , and Base are defined in Table 6.

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EXAMPLE 2

PREPARATION OF
2'-C-METHYLRIBO-8-METHYLADENINE

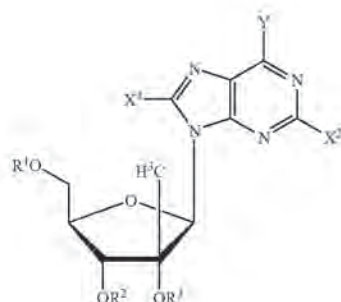
The title compound was prepared according to a published procedure (R. E. Harry-O'kuru, J. M. Smith, and M. S. Wolfe, "A short, flexible route toward 2'-C-branched ribonucleosides", *J. Org. Chem.* 1997, 62, 1754-1759) (Scheme 9).



The 3'-prodrug of the 2'-branched nucleoside was prepared according to published procedure (*Synthetic Communications*, 1978, 8(5), 327-333; *J. Am. Chem. Soc.*, 1999, 121(24), 5661-5664). Alternatively, the 2'-branched nucleoside can be esterified without protection (Scheme 9b). Carbonyldiimidazole (377 mg, 2.33 mmol) was added to a solution of N-(tert-butoxycarbonyl)-L-valine (507 mg, 2.33 mmol) in 15 mL of anhydrous tetrahydrofuran. The mixture was stirred at 20° C. for one hour and at 50° C. for 10 minutes and then added to a solution of 4-Amino-1-(3,4-dihydroxy-5-hydroxymethyl-3-methyl-tetrahydro-furan-2-yl)-1H-pyrimidine-2-one (500 mg, 1.95 mmol), 4-(dimethylamino)pyridine (25 mg, 0.195 mmol), triethylamine (5 mL) in anhydrous N,N-dimethylformamide (10 mL), which is also stirring at 50° C. The reaction mixture was stirred at 50° C. for one hour and then examined by HPLC. HPLC analysis indicated the formation of 52% of the desired ester, 17% of starting material in addition to undesired by-products. The 3'-OH of 4-amino-1-(3,4-dihydroxy-5-hydroxymethyl-3-methyl-tetrahydro-furan-2-yl)-1H-pyrimidine-2-one tends to react selectively when coupled with BOC-Val.

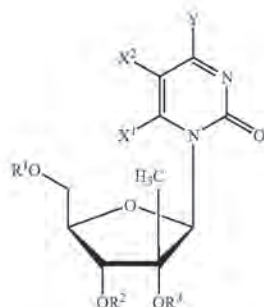
In a similar manner, but using the appropriate sugar and purine bases, the following nucleosides of Formula XXX are prepared.

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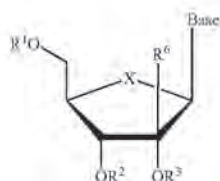
wherein R¹, R², R³, X¹, X² and Y are defined in Table 7.

Alternatively, the following nucleosides of Formula XXXI are prepared, using the appropriate sugar and pyrimidine or purine bases.



wherein R¹, R², R³, X¹, X², and Y are defined in Table 8.

Alternatively, the following nucleosides of Formula XXXII are prepared, using the appropriate sugar and pyrimidine or purine bases.



wherein R¹, R², R³, R⁶, X, and Base are defined in Table 9.

Alternatively, the following nucleosides of Formula XXXIII are prepared, using the appropriate sugar and pyrimidine or purine bases.

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(XXX)

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15 wherein R¹, R², R⁶, X, and Base are defined in Table 10.

Alternatively, the following nucleosides of Formula XXXIV are prepared, using the appropriate sugar and pyrimidine or purine bases.

(XXXI)

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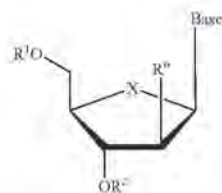
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(XXXII)

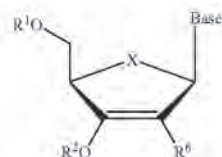
55

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(XXXIII)



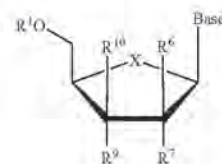
(XXXIV)



wherein R¹, R², R⁶, X, and Base are defined in Table 11.

Alternatively, the following nucleosides of Formula XXXV are prepared, using the appropriate sugar and pyrimidine or purine bases.

(XXXV)



wherein R¹, R⁶, R⁷, R⁹, R¹⁰, X, and Base are defined in Table 12.

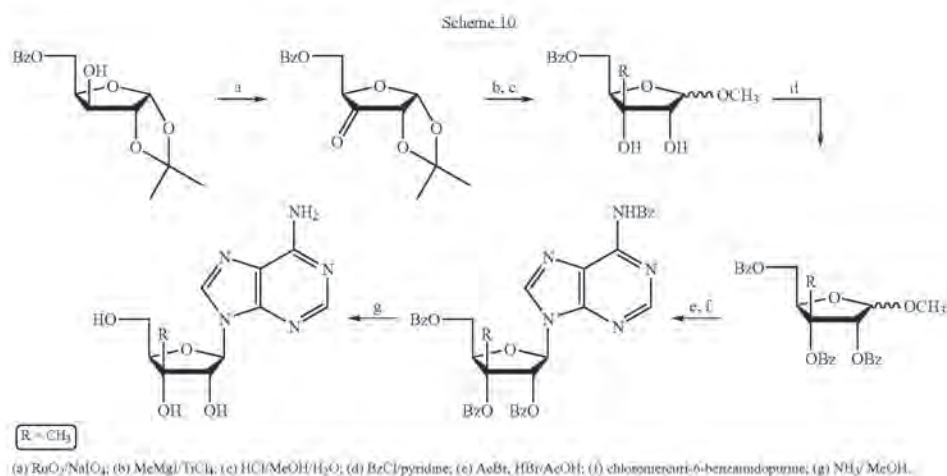
EXAMPLE 3

PREPARATION OF
3'-C-METHYLRIBO-8-METHYLADENINE

The title compound can be prepared according to a published procedure (R. F. Nutt, M. J. Dickinson, F. W. Holly, and E. Walton, "Branched-chain sugar nucleosides. III. 3'-C-methyladenine", *J. Org. Chem.* 1968, 33, 1789-1795) (Scheme 10).

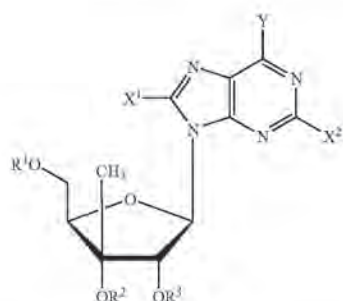
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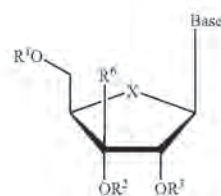


In a similar manner, but using the appropriate sugar and

Alternatively, the following nucleosides of Formula XXX-VIII are prepared, using the appropriate sugar and pyrimidine or purine bases.



(XXXVI) 30

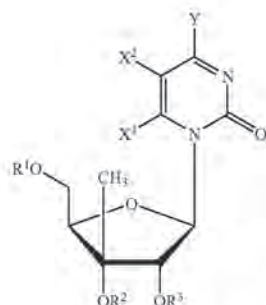


(XXXVIII)

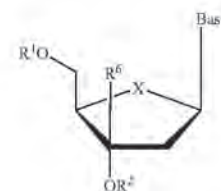
wherein R^1, R^2, R^3, R^6, X , and Base are defined in Table 15.

wherein R^1, R^2, R^3, X^1, X^2 , and Y are defined in Table 13.

Alternatively, the following nucleosides of Formula XXXVII are prepared, using the appropriate sugar and pyrimidine bases.



(XXXVII)



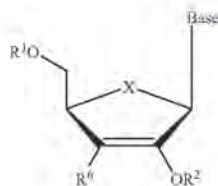
(XXXIX)

wherein R^1, R^2, R^6, X , and Base are defined in Table 16.

wherein R^1, R^2, R^3, X^1, X^2 , and Y are defined in Table 14.

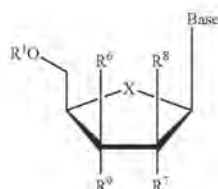
Alternatively, the following nucleosides of Formula XXXX are prepared, using the appropriate sugar and pyrimidine or purine bases.

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wherein R¹, R², R⁶, X, and Base are defined in Table 17.

Alternatively, the following nucleosides of Formula XXXXI are prepared, using the appropriate sugar and pyrimidine or purine bases.



wherein R¹, R⁶, R⁷, R⁸, R⁹, X, and Base are defined in Table 18.

EXAMPLE 4

PREPARATION OF 1-O-METHYL-2,3-O-ISOPROPYLIDENE-O-D-RIBOFURANOSE—(1)

The title compound can be prepared according to a published procedure (Leonard, N. J.; Carraway, K. L. "5-Amino-5-deoxyribose derivatives. Synthesis and use in the preparation of "reversed" nucleosides" *J. Heterocycl. Chem.* 1966, 3, 485-489).

A solution of 50.0 g (0.34 mole) of dry D-ribose in 1.0 L of acetone, 100 mL of 2,2-dimethoxypropane, 200 mL of methanol containing 20 mL of methanol saturated with hydrogen chloride at 0° C. was stirred overnight at room temperature. The resulting solution was neutralized with pyridine and evaporated under reduced pressure. The resulting oil was partitioned between 400 mL of water and 400 mL of methylene chloride. The water layer was extracted twice with methylene chloride (400 mL). The combined organic extracts were dried over sodium sulfate and evaporated under reduced pressure. The residue was purified by silica gel column chromatography [eluent: stepwise gradient of methanol (1-2%) in methylene chloride] to give pure 1 (52.1 g, 75%) as a yellow syrup. ¹H-NMR (CDCl₃): δ 5.00 (s, 1H, H-1), 4.86 (d, 1H, H-2, J_{2,3}=5.9 Hz), 4.61 (d, 1H, H-3, J_{3,2}=5.9 Hz), 4.46 (t, 1H, H-4, J_{4,5}=2.7 Hz), 3.77-3.61 (m, 2H, H-5 and H-5'), 3.46 (s, 1H, OCH₃), 3.0-2.4 (br s, 1H, OH-5), 1.51 (s, 3H C₃), 1.34 (s, 3H C₃); MS (matrix GT): FAB>0 m/z 173 (M-OCH₃)⁺.

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EXAMPLE 5

PREPARATION OF 1-O-METHYL-2,3-O-ISOPROPYLIDENE-β-D-PENTODIALDO-RIBOFURANOSE—(2)

The title compound can be prepared according to a published procedure (Jones, G. H.; Moffatt, J. G. Oxidation of carbohydrates by the sulfoxide-carbodiimide and related methods. Oxidation with dicyclohexylcarbodiimide-DMSO, diisopropylcarbodiimide-DMSO, acetic anhydride-DMSO, and phosphorus pentoxide-DMSO: in *Methods in Carbohydrate Chemistry*; Whistler, R. L. and Moffatt, J. L. Eds; Academic Press: New York, 1972; 315-322).

Compound 1 was co-evaporated twice with anhydrous pyridine. Dicyclohexylcarbodiimide (DCC, 137.8 g, 0.67 mol) was added to a solution of 1 (68.2 g, 0.33 mole) in anhydrous benzene (670 mL), DMSO (500 mL) and pyridine (13.4 mL). To the resulting solution, cooled to 0° C., was added a solution of anhydrous crystalline orthophosphoric acid (16.4 g, 0.167 mmol) in anhydrous DMSO (30 mL). The mixture was stirred for 1.5 hours at 0° C. and 18 hours at room temperature under argon atmosphere, diluted with ethyl acetate (1000 mL). A solution of oxalic acid dihydrate (63.1 g, 038 mol) in DMSO (30 mL) was added and the reaction mixture was stirred at room temperature during 1 hour and then filtered to eliminate precipitated dicyclohexylurea (DCU). The filtrate was concentrated to a volume of about 600 mL under reduced pressure and neutralized with a saturated aqueous sodium hydrogen carbonate solution (400 mL). Brine (200 mL) was added and the organic layer was extracted with ethyl acetate (4×1000 mL). The combined organic layers were concentrated to a volume of about 200 mL, washed with a saturated aqueous sodium hydrogen carbonate solution (2×700 mL), and with brine (2×700 mL) before being dried over sodium sulfate and evaporated under reduced pressure. A small fraction of the crude residue was purified on silica gel chromatography [eluent: chloroform/ethyl ether, 8:2] in order to confirm the structure of 2 which was obtained as a pale yellow solid. ¹H-NMR (CDCl₃): δ 9.61 (s, 1H, H-5), 5.12 (s, 1H, H-1), 5.08 (d, 1H, H-2, J_{2,3}=5.9 Hz), 4.53 (d, 1H, H-3, J_{3,2}=6.0 Hz), 4.51 (s, 1H, H-4), 3.48 (s, 1H, OCH₃), 1.56 (s, 3H C₃), 1.36 (s, 3H C₃); MS (matrix GT): FAB>0 m/z 203 (M+H)⁺, 171 (M-OCH₃)⁺.

EXAMPLE 6

PREPARATION OF 4-C-HYDROXYMETHYL-1-O-METHYL-2,3-O-ISOPROPYLIDENE-β-D-RIBOFURANOSE—(3)

The title compound can be prepared according to a published procedure (Leland, D. L.; Kotick, M. P. "Studies on 4-C-(hydroxymethyl)pentofuranoses. Synthesis of 9-[4-C-(hydroxymethyl)-α-L-threo-pentofuranosyl]adenine" *Carbohydr. Res.* 1974, 38, C9-C11; Jones, G. H.; Taniguchi, M.; Tegg, D.; Moffatt, J. G. "4"-substituted nucleosides. 5. Hydroxylation of nucleoside 5'-aldehydes" *J. Org. Chem.* 1979, 44, 1309-1317; Gunie, E.; Girardet, J.-L.; Pietrkowski, Z.; Esler, C.; Wang, G. "Synthesis and cytotoxicity of 4'-C- and 5'-C-substituted Toyocamycins" *Bioorg. Med. Chem.* 2001, 9, 163-170).

To a solution of the crude material (2) obtained above and 37% aqueous formaldehyde (167 mL) in dioxane (830 mL) was added aqueous sodium hydroxide (2N, 300 mL). The mixture was stirred at room temperature for 4 hours and neutralized by addition of Dowex 50 Wx2 (H⁺ form). The

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resin was filtered, washed with methanol, and the combined filtrates were concentrated to dryness and coevaporated several times with absolute ethanol. Sodium formate which was precipitated from absolute ethanol was removed by filtration, the filtrate was concentrated to dryness and the residue was purified by silica gel column chromatography [eluent: stepwise gradient of methanol (0-4%) in chloroform] to give pure 3 (42.2 g, 54% from 1), which was recrystallized from cyclohexane. Mp=94-95 (dec.) (lit. 94-96.5; 97-98; Refs: 3,4), ¹H-NMR (DMSO-d₆): δ 4.65 (s, 1H, H-1), 4.44-4.37 (m, 3H, H-2, H-3 and OH-6), 4.27 (t, 1H, OH-5, J=5.6 Hz, J=6.0 Hz), 3.42-3.34 (m, 2H, H-5 and H-6) 3.29 (dd, 1H, H-5', J_{5'-5}=5.4 Hz, J_{5'-5'}=11.4 Hz), 3.11 (dd, 1H, H-6', J_{6'-6}=5.7 Hz, J_{6'-6'}=10.9 Hz), 3.03 (s, 3H, OCH₃), 1.48 (s, 3H CH₃), 1.05 (s, 3H C₃); MS (matrix GT): FAB>0 m/z 469 (2M+H)⁺, 235 (M+H)⁺, 203 (M-OCH₃)⁺; FAB<0 m/z 233 (M-H)⁻.

EXAMPLE 7

PREPARATION OF 6-O-MONOMETHOXYTRITYL-4-C-HYDROXYMETHYL-1-O-METHYL-2,3-O-ISOPROPYLIDENE-β-D-RIBOFURANOSE—(4)

The title compound can be prepared according to a published procedure (Gunic, E.; Girardet, J.-L.; Pietrkowski, Z.; Esler, C.; Wang, G. "Synthesis and cytotoxicity of 4'-C- and 5'-C-substituted Toyocamycins" *Bioorg. Med. Chem.* 2001, 9, 163-170).

To a solution of 3 (41.0 g, 175 mmol) in pyridine (700 mL) was added by portions dimethoxytrityl chloride (60.5 g, 178 mmol) at +4° C. The reaction mixture was stirred for 3 hours at room temperature. After addition of methanol, the reaction mixture was concentrated (200 mL) and then dissolved with ethyl acetate (2 L). The organic layer was washed with a 5% aqueous sodium hydrogen carbonate solution, with water and dried over sodium sulfate and then evaporated to dryness. Purification by silica gel column chromatography [eluent: ethyl acetate/hexane 15/85] afforded pure 4 (63.0 g, 68%) as a syrup. ¹H-NMR (CDCl₃): δ 7.5-6.9 (m, 13H, MMTr), 4.89 (s, 1H, H-1), 4.72-4.62 (m, 3H, H-2, H-3 and OH-5), 3.82 (dd, 1H, H-5, J_{5-5'}=5.5 Hz, J_{5-5'}=10.5 Hz), 3.79 (s, 6H, OCH₃), 3.54 (dd, 1H, H-5', J_{5'-5}=4.9 Hz, J_{5'-5'}=10.5 Hz), 3.31 (s, 3H, OCH₃), 3.24 (d, 1H, H-6, J_{6-6'}=9.2 Hz), 3.13 (d, 1H, H-6', J_{6'-6}=9.2 Hz), 1.24 (s, 3H C₃), 1.15 (s, 3H CH₃); MS (matrix GT): FAB>0 m/z 303 (DMTr)⁺.

EXAMPLE 8

PREPARATION OF 5-O-BENZOYL-4-C-HYDROXYMETHYL-1-O-METHYL-2,3-O-ISOPROPYLIDENE-β-D-RIBOFURANOSE—(5)

The title compound can be prepared according to a published procedure (Gunic, E.; Girardet, J.-L.; Pietrkowski, Z.; Esler, C.; Wang, G. "Synthesis and cytotoxicity of 4'-C- and 5'-C-substituted Toyocamycins" *Bioorg. Med. Chem.* 2001, 9, 163-170).

To a solution of 4 (2.51 g, 4.68 mmol) in anhydrous pyridine (37 mL) was added under argon benzoyl chloride (1.09 mL, 9.36 mmol) and the reaction mixture was stirred for 13 hours at room temperature. Then the reaction was cooled to 0° C. and stopped with ice-cold water (100 mL). The water layer was extracted with methylene chloride (3×200 mL). The combined organic layers were washed with a saturated aqueous sodium hydrogen carbonate solution (2×150 mL), with water (1×150 mL) and then dried over sodium sulfate

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and evaporated under reduced pressure. The residue was dissolved in 80% acetic acid (70.2 mL) and the mixture was stirred at room temperature for 3 hr and concentrated to dryness. Purification by silica gel column chromatography [eluent: chloroform] afforded pure 5 (1.40 g, 88%) as a syrup. ¹H-NMR (CDCl₃): δ 8.1-7.4 (m, 5H, C₆H₅CO), 5.08 (s, 1H, H-1), 4.77 (dd, 2H, H-2 and H-3, J=6.1 Hz, J=8.2 Hz), 4.51 (q, 2H, H-5 and H-5', J=11.5 Hz, J_{5-5'}=23.8 Hz), 3.91 (t, 2H, H-6 and H-6', J=12.3 Hz), 4.38 (s, 1H, OCH₃), 2.2-1.8 (brs, 1H, OH-6), 1.57 (s, 3H C₃), 1.38 (s, 3H C₃); MS (matrix GT): FAB>0 m/z 677 (2M+H)⁺, 339 (M+H)⁺, 307 (M-OCH₃)⁺, 105 (C₆H₅CO)⁺; FAB<0 m/z 121 (C₆H₅CO₂)⁻.

EXAMPLE 9

PREPARATION OF 5-O-BENZOYL-4-C-METHYL-1-O-METHYL-2,3-O-ISOPROPYLIDENE-β-D-RIBOFURANOSE—(6)

The title compound can be prepared according to a published procedure (Gunic, E.; Girardet, J.-L.; Pietrkowski, Z.; Esler, C.; Wang, G. "Synthesis and cytotoxicity of 4'-C- and 5'-C-substituted Toyocamycins" *Bioorg. Med. Chem.* 2001, 9, 163-170).

A solution of 5 (37.6 g, 0.111 mol), 4-dimethylaminopyridine (DMAP, 40.7 g, 0.333 mol) and phenoxythiocarbonyl chloride in anhydrous acetonitrile (1000 mL) was stirred at room temperature for 1 hour and concentrated to dryness. The residue was dissolved in methylene chloride (500 mL) and successively washed with 0.2 M hydrochloric acid (2×500 mL) and water (500 mL) before being dried over sodium sulfate, evaporated under reduced pressure and coevaporated several times with anhydrous toluene. The crude material was dissolved in anhydrous toluene (880 mL) and tris(trimethylsilyl)silane (TMSS, 42.9 mL, 0.139 mol), and 1,1'-azobis(cyclohexanecarbonitrile) (ACCN, 6.8 g, 27.8 mmol) were added. The reaction mixture was stirred under reflux for 45 minutes, cooled to room temperature and concentrated under reduced pressure. The resulting residue was purified by silica gel column chromatography [eluent: stepwise gradient of diethyl ether (5-20%) in petroleum ether] to give pure 6 (26.4 g, 74%) as a pale yellow syrup. ¹H-NMR (DMSO-d₆): δ 8.0-7.5 (m, 5H, C₆H₅CO), 4.85 (s, 1H, H-1), 4.63 (dd, 2H, H-2 and H-3, J=6.1 Hz, J=11.6 Hz), 4.24 (d, 1H, H-5, J_{5-5'}=11.1 Hz), 4.10 (d, 1H, H-5', J_{5'-5}=11.1 Hz), 3.17 (s, 1H, OCH₃), 1.38 (s, 3H C₃), 1.30 (s, 3H C₃), 1.25 (s, 3H C₃); MS (matrix GT): FAB>0 m/z 291 (M-OCH₃)⁺, 105 (C₆H₅CO)⁺; FAB<0 m/z 121 (C₆H₅CO₂)⁻.

EXAMPLE 10

PREPARATION OF 5-O-BENZOYL-4-C-METHYL-1,2,3-O-ACETYL-α,β-D-RIBOFURANOSE—(7)

Compound 6 (22.5 g, 70 mmol) was suspended in a 80% aqueous acetic acid solution (250 mL). The solution was heated at 100° C. for 3 hours. The volume was then reduced by half and coevaporated with absolute ethanol and pyridine. The oily residue was dissolved in pyridine (280 mL) and then cooled at 0° C. Acetic anhydride (80 mL) and 4-dimethylamino-pyridine (500 mg) were added. The reaction mixture was stirred at room temperature for 3 hours and then concentrated under reduced pressure. The residue was dissolved with ethyl acetate (1 L) and successively washed with a saturated aqueous sodium hydrogen carbonate solution, a 1 M hydrochloric acid and water. The organic layer was dried over

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sodium sulfate and evaporated under reduced pressure. The resulting residue was purified by silica gel column chromatography [eluent: stepwise gradient of diethyl ether (30-40%) in petroleum ether] to give pure 7 (16.2 g, 60%) as a pale yellow syrup. A small fraction of the material was re-purified on silica gel chromatography [same eluent: system] in order to separate the α and the β anomers.

α anomer: $^1\text{H-NMR}$ (DMSO-d_6): δ 8.1-7.5 (m, 5H, $\text{C}_6\text{H}_5\text{CO}$), 6.34 (pt, 1H, H-1, $J=2.4$ Hz, $J=2.1$ Hz), 5.49 (m, 2H, H-2 and H-3); 4.33 (q, 2H, H-5 and H-5', $J=11.6$ Hz, $J=18.7$ Hz), 2.15 (s, 3H, CH_3CO_2), 2.11 (s, 3H, CH_3CO_2), 2.07 (s, 3H, CH_3CO_2), 1.37 (s, 3H, CH_3); MS (matrix GT): $\text{FAB}>0$ m/z 335 ($\text{M}-\text{CH}_3\text{CO}_2^- + \text{H}^+$), 275 ($\text{M}-\text{CH}_3\text{CO}_2^- + \text{H}^+$), 105 ($\text{C}_6\text{H}_5\text{CO}^+$), 43 (CH_3CO^+) $\text{FAB}<0$ m/z 121 ($\text{C}_6\text{H}_5\text{CO}_2^-$), 59 (CH_3CO_2^-).

β anomer: $^1\text{H-NMR}$ (DMSO-d_6): δ 8.1-7.5 (m, 5H, $\text{C}_6\text{H}_5\text{CO}$), 5.99 (s, 1H, H-1), 5.46 (d, 1H, H-2, $J_{2,3}=5.3$ Hz), 5.30 (d, 1H, H-2, $J_{2,3}=5.3$ Hz), 4.39 (d, 1H, H-5, $J_{5,5'}=11.7$ Hz), 4.19 (d, 1H, H-5', $J_{5,5'}=11.7$ Hz), 2.10 (s, 3H, CH_3CO_2), 2.06 (s, 3H, CH_3CO_2), 2.02 (s, 3H, CH_3CO_2), 1.30 (s, 3H, CH_3); MS (matrix GT): $\text{FAB}>0$ m/z 335 ($\text{M}-\text{CH}_3\text{CO}_2^- + \text{H}^+$), 275 ($\text{M}-\text{CH}_3\text{CO}_2^- + \text{H}^+$), 105 ($\text{C}_6\text{H}_5\text{CO}^+$), 43 (CH_3CO^+) $\text{FAB}<0$ m/z 121 ($\text{C}_6\text{H}_5\text{CO}_2^-$), 59 (CH_3CO_2^-).

EXAMPLE 11

PREPARATION OF O-6-DIPHENYLCARBAMOYL-N²-ISOBUTYRYL-9-(2,3-DI-O-ACETYL-5-O-BENZOYL-4-C-METHYL- β -D-RIBOFURANOSYL)-8-METHYLGUANINE—(18)

To a suspension of O-6-diphenylcarbamoyl-8-methyl-N²-isobutyrylguanine in anhydrous toluene (20 mL) was added N,O-bis(trimethylsilyl)acetamide (1.92 mL, 7.9 mmol). The reaction mixture was allowed to warm under reflux for 1 hour. Compound 7 (1.55 g, 3.93 mmol) was dissolved in toluene (10 mL) and trimethylsilyltrifluoromethanesulfonate (TMSOTf) (915 mL, 4.72 mmol) was added. The mixture was heated under reflux for 30 minutes. The solution was then cooled to room temperature and neutralized with a 5% aqueous sodium hydrogen carbonate solution. The reaction mixture was diluted with ethyl acetate (200 mL). The organic phase was washed with a 5% aqueous sodium hydrogen carbonate solution (150 mL) and with water (2 $\times$ 150 mL). The organic layer was dried over Na_2SO_4 and evaporated to dryness. The residue was purified by silica gel column chromatography [eluent: stepwise gradient of diethyl ether (70-90%) in petroleum ether] to afford 18.

EXAMPLE 12

PREPARATION OF 9-(4-C-METHYL- β -D-RIBOFURANOSYL)-8-METHYLGUANINE—(19)

The title compound can be prepared according to a published procedure from 18 (Waga, T.; Nishizaki, T.; Miyakawa, I.; Orhui, H.; Meguro, H. "Synthesis of 4'-C-methylnucleosides" *Biosci. Biotechnol. Biochem.* 1993, 57, 1433-1438).

A solution of 18 in methanolic ammonia (previously saturated at -10°C) (20 mL) was stirred at room temperature overnight. The solvent was evaporated under reduced pressure and the residue was partitioned between methylene chloride (60 mL) and water (60 mL). The aqueous layer was washed with methylene chloride (2 $\times$ 60 mL), concentrated under reduced pressure. The residue was purified by an RP18 column chromatography [eluent water/acetonitrile 95/5] to afford 19.

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EXAMPLE 13

9-(2,3-DI-O-ACETYL-5-O-BENZOYL-4-C-METHYL- β -D-RIBOFURANOSYL)-8-METHYLADENINE—(20)

A solution of 7 (1.10 g, 2.79 mmol) in anhydrous acetonitrile (50 mL) was treated with 8-methyladenine and stannic chloride (SnCl_4 , 660 μL , 5.58 mmol) and stirred at room temperature overnight. The solution was concentrated under reduced pressure, diluted with chloroform (100 mL) and treated with a cold saturated aqueous solution of NaHCO_3 (100 mL). The mixture was filtered on celite, and the precipitate was washed with hot chloroform. The filtrates were combined, washed with water (100 mL) and brine (100 mL), dried (Na_2SO_4), and evaporated under reduced pressure. The residue was purified by silica gel column chromatography [eluent: stepwise gradient of methanol (3-5%) in dichloromethane] to afford 20.

EXAMPLE 14

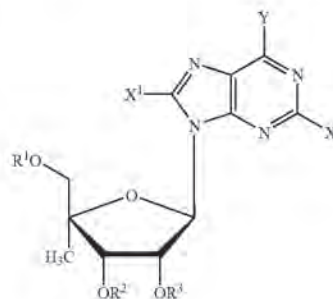
PREPARATION OF 9-(4-C-METHYL- β -D-RIBOFURANOSYL)-8-METHYLADENINE—(21)

The title compound can be prepared according to a published procedure from 20 (Waga, T.; Nishizaki, T.; Miyakawa, I.; Orhui, H.; Meguro, H. "Synthesis of 4'-C-methylnucleosides" *Biosci. Biotechnol. Biochem.* 1993, 57, 1433-1438).

A solution of 20 in methanolic ammonia (previously saturated at -10°C) (50 mL) was stirred at room temperature overnight. The solvent was evaporated under reduced pressure and the residue was partitioned between methylene chloride (100 mL) and water (100 mL). The aqueous layer was washed with methylene chloride (2 $\times$ 100 mL), and concentrated under reduced pressure. The residue was purified by silica gel column chromatography [eluent: stepwise gradient of methanol (10-30%) in ethyl acetate] to afford 21.

In a similar manner, but using the appropriate sugar and purine bases, the following nucleosides of Formula XXXII are prepared.

(XXXII)



wherein R¹, R², R³, X¹, X², and Y are defined in Table 19.

EXAMPLE 15

PREPARATION OF 1-(5-O-BENZOYL-4-C-METHYL-2,3-O-ACETYL- β -D-RIBOFURANOSYL)-6-METHYLURACIL—(8)

A suspension of 6-methyluracil was treated with hexamethyldisilazane (HMDS, 21 mL) and a catalytic amount of

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ammonium sulfate during 17 hours under reflux. After cooling to room temperature, the mixture was evaporated under reduced pressure, and the residue, obtained as a colorless oil, was diluted with anhydrous 1,2-dichloroethane (7.5 mL). To the resulting solution was added 7 (0.99 g, 2.51 mmol) in anhydrous 1,2-dichloroethane (14 mL), followed by addition of trimethylsilyl trifluoromethanesulfonate (TMSTf, 0.97 mL, 5.02 mmol). The solution was stirred for 2.5 hours at room temperature under argon atmosphere, then diluted with chloroform (150 mL), washed with the same volume of a saturated aqueous sodium hydrogen carbonate solution and finally with water (2×100 mL). The organic phase was dried over sodium sulfate, then evaporated under reduced pressure. The resulting crude material was purified by silica gel column chromatography [eluent: stepwise gradient of methanol (0-2%) in chloroform] to afford pure 8.

EXAMPLE 16

PREPARATION OF 1-(4-C-METHYL-β-D-RIBOFURANOSYL)-6-METHYLURACIL—(9)

The title compound can be prepared according to a published procedure from 8 (Waga, T.; Nishizaki, T.; Miyakawa, I.; Orhui, H.; Meguro, H. "Synthesis of 4'-C-methylnucleosides" *Biosci. Biotechnol. Biochem.* 1993, 57, 1433-1438).

A solution of 8 in methanolic ammonia (previously saturated at -10° C.) (27 mL) was stirred at room temperature overnight. The solvent was evaporated under reduced pressure and the residue was partitioned between methylene chloride (40 mL) and water (40 mL). The aqueous layer was washed with methylene chloride (2×40 mL), concentrated under reduced pressure and coevaporated several times with absolute ethanol. Recrystallization from a mixture absolute ethanol/methanol gave 9.

EXAMPLE 17

PREPARATION OF 1-(5-O-BENZOYL-4-C-METHYL-2,3-O-ACETYL-β-D-RIBOFURANOSYL)-4-THIO-6-METHYLURACIL—(10)

Lawesson's reagent (926 mg, 2.29 mmol) was added under argon to a solution of 8 in anhydrous 1,2-dichloroethane (65 mL) and the reaction mixture was stirred overnight under reflux. The solvent was evaporated under reduced pressure and the residue was purified by silica gel column chromatography [eluent: stepwise gradient of methanol (1-2%) in chloroform] to give pure 10.

EXAMPLE 18

PREPARATION OF 1-(4-C-METHYL-β-D-RIBOFURANOSYL)-4-THIO-6-METHYLURACIL—(11)

A solution of 10 in methanolic ammonia (previously saturated at -10° C.) (27 mL) was stirred at room temperature overnight. The solvent was evaporated under reduced pressure and the residue was partitioned between methylene chloride (40 mL) and water (40 mL). The aqueous layer was washed with methylene chloride (2×40 mL), concentrated under reduced pressure. The crude material was purified by silica gel column chromatography [eluent: stepwise gradient of methanol (5-7%) in methylene chloride] to give 11, which was lyophilized.

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EXAMPLE 19

PREPARATION OF 1-(4-C-METHYL-β-D-RIBOFURANOSYL)-6-METHYLCYTOSINE, HYDROCHLORIC FORM—(12)

Compound 11 was treated with methanolic ammonia (previously saturated at -10° C.) (12 mL) at 100° C. in a stainless-steel bomb for 3 hours, then cooled to room temperature. The solvent was evaporated under reduced pressure and the residue was partitioned between methylene chloride (40 mL) and water (40 mL). The aqueous layer was washed with methylene chloride (2×40 mL), concentrated under reduced pressure. The crude material was purified by silica gel column chromatography [eluent: methylene chloride/methanol/ammonium hydroxide 65:30:5]. The collected fractions were evaporated under reduced pressure and in absolute ethanol (6.3 mL). To the solution was added a 2N hydrochloric acid solution (1.5 mL) and the mixture was stirred before being concentrated under reduced pressure. The procedure was repeated twice and 12 was precipitated from absolute ethanol.

EXAMPLE 20

PREPARATION OF 1-(5-O-BENZOYL-4-C-METHYL-2,3-O-ACETYL-β-D-RIBOFURANOSYL)-6-METHYLTHYMINE—(13)

A suspension of 6-methylthymine was treated with hexamethyldisilazane (HMDS, 17 mL) and a catalytic amount of ammonium sulfate overnight under reflux. After cooling to room temperature, the mixture was evaporated under reduced pressure, and the residue, obtained as a colorless oil, was diluted with anhydrous 1,2-dichloroethane (6 mL). To the resulting solution was added 7 (1.0 g, 2.53 mmol) in anhydrous 1,2-dichloroethane (14 mL), followed by addition of trimethylsilyl trifluoromethanesulfonate (TMSTf, 0.98 mL, 5.06 mmol). The solution was stirred for 5 hours at room temperature under argon atmosphere, then diluted with chloroform (150 mL), washed with the same volume of a saturated aqueous sodium hydrogen carbonate solution and finally with water (2×100 mL). The organic phase was dried over sodium sulfate, then evaporated under reduced pressure. The resulting crude material was purified by silica gel column chromatography [eluent: 2% of methanol in chloroform] to afford pure 13.

EXAMPLE 21

PREPARATION OF 1-(4-C-METHYL-β-D-RIBOFURANOSYL)-6-METHYLTHYMINE—(14)

The title compound can be prepared according to a published procedure from 13 (Waga, T.; Nishizaki, T.; Miyakawa, I.; Orhui, H.; Meguro, H. "Synthesis of 4'-C-methylnucleosides" *Biosci. Biotechnol. Biochem.* 1993, 57, 1433-1438).

A solution of 13 in methanolic ammonia (previously saturated at -10° C.) (60 mL) was stirred at room temperature overnight. The solvent was evaporated under reduced pressure and the residue was partitioned between methylene chloride (60 mL) and water (60 mL). The aqueous layer was washed with methylene chloride (2×60 mL), concentrated under reduced pressure and coevaporated several times with absolute ethanol. Recrystallization from methanol gave 14.

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EXAMPLE 22

PREPARATION OF 1-(5,2,3-TRI-O-ACETYL-4-C-METHYL- β -D-RIBOFURANOSYL)-6-METHYLTHYMINE—(15)

A solution of 14 in anhydrous pyridine (7.4 mL) was treated with acetic anhydride (1.2 mL) and stirred at room temperature for 3 hours. The solvent was evaporated under reduced pressure, and the residue was purified by silica gel column chromatography [eluent: stepwise gradient of methanol (0-5%) in methylene chloride] to afford 15.

EXAMPLE 23

PREPARATION OF 1-(5,2,3-TRI-O-ACETYL-4-C-METHYL- β -D-RIBOFURANOSYL)-4-THIO-6-METHYLTHYMINE—(16)

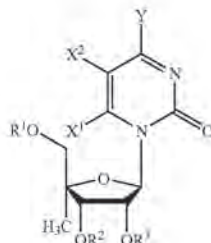
Lawesson's reagent (119 mg, 0.29 mmol) was added under argon to a solution of 15 in anhydrous 1,2-dichloroethane (11 mL) and the reaction mixture was stirred overnight under reflux. The solvent was evaporated under reduced pressure and the residue was purified by silica gel column chromatography [eluent: stepwise gradient of methanol (1-2%) in chloroform] to give 16.

EXAMPLE 24

PREPARATION OF 1-(4-C-METHYL- β -D-RIBOFURANOSYL)-5-METHYL-6-METHYLCYTOSINE—(17), HYDROCHLORIDE FORM

Compound 16 was treated with methanolic ammonia (previously saturated at -10°C .), (10 mL) at 100°C . in a stainless-steel bomb for 3 hours, then cooled to room temperature. The solvent was evaporated under reduced pressure and the residue was partitioned between methylene chloride (30 mL) and water (30 mL). The aqueous layer was washed with methylene chloride (2x30 mL), concentrated under reduced pressure. The crude material was purified by silica gel column chromatography [eluent: 20% methanol in methylene chloride] to afford 17. This compound was dissolved in EtOH 100 (1.5 mL), treated with a 2N hydrochloric acid solution (0.3 mL), and the mixture was stirred before being concentrated under reduced pressure. The procedure was repeated twice and 17 was precipitated from absolute ethanol.

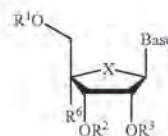
Alternatively, the following nucleosides of Formula XXXXIII are prepared, using the appropriate sugar and pyrimidine bases.



wherein R^1 , R^2 , R^3 , X^1 , X^2 , and Y are defined in Table 20.

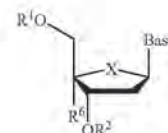
148

Alternatively, the following nucleosides of Formula XXXXIV are prepared, using the appropriate sugar and pyrimidine or purine bases.



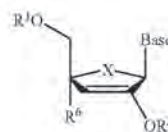
wherein R^1 , R^2 , R^3 , R^6 , X, and Base are defined in Table 21.

Alternatively, the following nucleosides of Formula XXXXV are prepared, using the appropriate sugar and pyrimidine or purine bases.



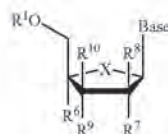
wherein R^1 , R^2 , R^6 , X, and Base are defined in Table 22.

Alternatively, the following nucleosides of Formula XXXXVI are prepared, using the appropriate sugar and pyrimidine or purine bases.



wherein R^1 , R^2 , R^6 , X, and Base are defined in Table 23

Alternatively, the following nucleosides of Formula XXXXVII are prepared, using the appropriate sugar and pyrimidine or purine bases.



wherein R^1 , R^6 , R^7 , R^8 , R^9 , R^{10} , X, and Base are defined in Table 24.

Tables 1-24 set out examples of species within the present invention. When the amino acid appears in the table, it is considered to be a specific and independent disclosure of each of the esters of α , β γ or δ glycine, alanine, valine, leucine, isoleucine, methionine, phenylalanine, tryptophan, proline, serine, threonine, cysteine, tyrosine, asparagine, glutamine, aspartate, glutamate, lysine, arginine and histidine in the D and L-configurations. When the term acyl is used in the tables, it is meant to be a specific and independent disclosure of any of the acyl groups as defined herein, including, but not limited to, acetyl, trifluoroacetyl, methylacetyl, cyclopropylacetyl, propionyl, butyryl, hexanoyl, heptanoyl, octanoyl, neo-heptanoyl, phenylacetyl, diphenylacetyl, α -trifluoromethyl-phenylacetyl, bromoacetyl, 4-chloro-benzeneacetyl, 2-chloro-2, 2-diphenylacetyl, 2-chloro-2-phenylacetyl, trimethylacetyl,

chlorodifluoroacetyl, perfluoroacetyl, fluoroacetyl, bromodifluoroacetyl, 2-thiopheneacetyl, tert-butylacetyl, trichloroacetyl, monochloroacetyl, dichloroacetyl, methoxybenzoyl, 2-bromo-propionyl, decanoyl, n-pentadecanoyl, stearyl, 3-cyclopentyl-propionyl, 1-benzene-carboxyl, pivaloyl acetyl, 1-adamantane-carboxyl, cyclohexane-carboxyl, 2,6-pyridinedicarboxyl, cyclopropane-carboxyl, cyclobutane-carboxyl, 4-methylbenzoyl, crotonyl, 1-methyl-1H-indazole-3-carbonyl, 2-propenyl, isovaleryl, 4-phenylbenzoyl.

VIII. Biological Assays

A number of assays are available to determine the potency of test compounds against viruses. Several of these biological assays are described in the examples below.

EXAMPLE 25

Anti-Flavivirus or Pestivirus Activity

Compounds can exhibit anti-flavivirus or pestivirus activity by inhibiting flavivirus or pestivirus polymerase, by inhibiting other enzymes needed in the replication cycle, or by other pathways.

Phosphorylation Assay of Nucleoside to Active Triphosphate

To determine the cellular metabolism of the compounds, HepG2 cells are obtained from the American Type Culture Collection (Rockville, Md.), and are grown in 225 cm² tissue culture flasks in minimal essential medium supplemented with non-essential amino acids, 1% penicillin-streptomycin. The medium is renewed every three days, and the cells are subcultured once a week. After detachment of the adherent monolayer with a 10 minute exposure to 30 mL of trypsin-EDTA and three consecutive washes with medium, confluent HepG2 cells are seeded at a density of 2.5×10^6 cells per well in a 6-well plate and exposed to 10 μ M of labeled active compound (500 dpm/pmol) for the specified time periods. The cells are maintained at 37° C. under a 5% CO₂ atmosphere. At the selected time points, the cells are washed three times with ice-cold phosphate-buffered saline (PBS). Intracellular active compound and its respective metabolites are extracted by incubating the cell pellet overnight at -20° C. with 60% methanol followed by extraction with an additional 20 μ L of cold methanol for one hour in an ice bath. The extracts are then combined, dried under gentle filtered air flow and stored at -20° C. until HPLC analysis.

Bioavailability Assay in Cynomolgus Monkeys

Within 1 week prior to the study initiation, the cynomolgus monkey is surgically implanted with a chronic venous catheter and subcutaneous venous access port (VAP) to facilitate blood collection and underwent a physical examination including hematology and serum chemistry evaluations and the body weight was recorded. Each monkey (six total) receives approximately 250 μ Ci of ³H activity with each dose of active compound at a dose level of 10 mg/kg at a dose concentration of 5 mg/mL, either via an intravenous bolus (3 monkeys, IV), or via oral gavage (3 monkeys, PO). Each dosing syringe is weighed before dosing to gravimetrically determine the quantity of formulation administered. Urine samples are collected via pan catch at the designated intervals (approximately 18-0 hours pre-dose, 0-4, 4-8 and 8-12 hours post-dosage) and processed. Blood samples are collected as well (pre-dose, 0.25, 0.5, 1, 2, 3, 6, 8, 12 and 24 hours post-dosage) via the chronic venous catheter and VAP or from a peripheral vessel if the chronic venous catheter procedure should not be possible. The blood and urine samples are analyzed for the maximum concentration (C_{max}), time when

the maximum concentration is achieved (T_{max}), area under the curve (AUC), half life of the dosage concentration ($T_{1/2}$), clearance (CL), steady state volume and distribution (V_{ss}) and bioavailability (F).

Bone Marrow Toxicity Assay

Human bone marrow cells are collected from normal healthy volunteers and the mononuclear population are separated by Ficoll-Hypaque gradient centrifugation as described previously by Sommadossi J-P, Carlisle R. "Toxicity of 3'-azido-3'-deoxythymidine and 9-(1,3-dihydroxy-2-propoxymethyl) guanine for normal human hematopoietic progenitor cells in vitro" *Antimicrobial Agents and Chemotherapy* 1987; 31:452-454; and Sommadossi J-P, Schinazi R.F, Chu C K, Xie M-Y. "Comparison of cytotoxicity of the (-) and (+)-enantiomer of 2',3'-dideoxy-3'-thiacytidine in normal human bone marrow progenitor cells" *Biochemical Pharmacology* 1992; 44:1921-1925. The culture assays for CFU-GM and BFU-E are performed using a bilayer soft agar or methylcellulose method. Drugs are diluted in tissue culture medium and filtered. After 14 to 18 days at 37° C. in a humidified atmosphere of 5% CO₂ in air, colonies of greater than 50 cells are counted using an inverted microscope. The results are presented as the percent inhibition of colony formation in the presence of drug compared to solvent control cultures.

Mitochondria Toxicity Assay

HepG2 cells are cultured in 12-well plates as described above and exposed to various concentrations of drugs as taught by Pan-Zhou X-R, Cui L, Zhou X-J, Sommadossi J-P, Darley-Usmer V M. "Differential effects of antiretroviral nucleoside analogs on mitochondrial function in HepG2 cells" *Antimicrob. Agents Chemother.* 2000; 44:496-503. Lactic acid levels in the culture medium after 4 day drug exposure are measured using a Boehringer lactic acid assay kit. Lactic acid levels are normalized by cell number as measured by hemocytometer count.

Cytotoxicity Assay

Cells are seeded at a rate of between 5×10^3 and 5×10^4 /well into 96-well plates in growth medium overnight at 37° C. in a humidified CO₂ (5%) atmosphere. New growth medium containing serial dilutions of the drugs is then added. After incubation for 4 days, cultures are fixed in 50% TCA and stained with sulforhodamine B. The optical density was read at 550 nm. The cytotoxic concentration was expressed as the concentration required to reduce the cell number by 50% (CC_{50}).

Cell Protection Assay (CPA)

The assay is performed essentially as described by Baginski, S. G.; Pevear, D. C.; Seipel, M.; Sun, S. C. C.; Benetatos, C. A.; Chunduru, S. K.; Rice, C. M. and M. S. Collett "Mechanism of action of a pestivirus antiviral compound" *PNAS USA* 2000, 97(14), 7981-7986. MDBK cells (ATCC) are seeded onto 96-well culture plates (4,000 cells per well) 24 hours before use. After infection with BVDV (strain NADL, ATCC) at a multiplicity of infection (MOI) of 0.02 plaque forming units (PFU) per cell, serial dilutions of test compounds are added to both infected and uninfected cells in a final concentration of 0.5% DMSO in growth medium. Each dilution is tested in quadruplicate. Cell densities and virus inocula are adjusted to ensure continuous cell growth throughout the experiment and to achieve more than 90% virus-induced cell destruction in the untreated controls after four days post-infection. After four days, plates are fixed with 50% TCA and stained with sulforhodamine B. The optical density of the wells is read in a microplate reader at 550 nm. The 50%

effective concentration (EC_{50}) values are defined as the compound concentration that achieved 50% reduction of cytopathic effect of the virus.

Plaque Reduction Assay

For each compound the effective concentration is determined in duplicate 24-well plates by plaque reduction assays. Cell monolayers are infected with 100 PFU/well of virus. Then, serial dilutions of test compounds in MEM supplemented with 2% inactivated serum and 0.75% of methyl cellulose are added to the monolayers. Cultures are further incubated at 37° C. for 3 days, then fixed with 50% ethanol and 0.8% Crystal Violet, washed and air-dried. Then plaques are counted to determine the concentration to obtain 90% virus suppression.

Yield Reduction Assay

For each compound the concentration to obtain a 6-log reduction in viral load is determined in duplicate 24-well plates by yield reduction assays. The assay is performed as described by Baginski, S. G.; Pevear, D. C.; Seipel, M.; Sun, S. C. C.; Benetatos, C. A.; Chunduru, S. K.; Rice, C. M. and M. S. Collett "Mechanism of action of a pestivirus antiviral compound" *PNAS USA* 2000, 97(14), 7981-7986, with minor modifications. Briefly, MDBK cells are seeded onto 24-well plates (5x105 cells per well) 24 hours before infection with BVDV (NADL strain) at a multiplicity of infection (MOI) of 0.1 PFU per cell. Serial dilutions of test compounds are added to cells in a final concentration of 0.5% DMSO in growth medium. Each dilution is tested in triplicate. After three days, cell cultures (cell monolayers and supernatants) are lysed by three freeze-thaw cycles, and virus yield is quantified by plaque assay. Briefly, MDBK cells are seeded onto 6-well plates (5x105 cells per well) 24 h before use. Cells are inoculated with 0.2 mL of test lysates for 1 hour, washed and overlaid with 0.5% agarose in growth medium. After 3 days, cell monolayers are fixed with 3.5% formaldehyde and stained with 1% crystal violet (w/v in 50% ethanol) to visualize plaques. The plaques are counted to determine the concentration to obtain a 6-log reduction in viral load.

EXAMPLE 26

In Vitro Anti-Viral Activity

In vitro anti-viral activity was tested in the following cell lines: MT-4 for HIV; Vero 76, African green monkey kidney cells for SARS; BHK for Bovine Viral Diarrhea Virus; Sb-1 for poliovirus Sabin type-1; CVB-2, CVB-3, CVB-4, and CVA-9 for Coxsackieviruses B-2, B-3, B-4 and A-9; and REO-1 for double-stranded RNA viruses. Note: BVDV=bovine viral diarrhea virus; YFV=yellow fever virus; DENV=dengue virus; WNV=West Nile virus; CVB-2=Coxsackie B-2 virus; Sb-1=Sabin type 1 poliomyelitis virus; and REO=double-stranded RNA Reovirus.

CC_{50} and EC_{50} Test Results for β -D-2'-C-methyl-7-methyl-6-phenyl-3,3a,5,8a-tetrahydro-1,3,4,5,7a-penta-aza-s-indacen-8-one (Compound F)

Compound	CC_{50} MT-4	CC_{50} Vero 76	CC_{50} BHK	EC_{50} Sb-1	EC_{50} CVB-2	EC_{50} CVB-3	EC_{50} CVB-4	EC_{50} CVA-9	EC_{50} REO-1
F	>100	>100	>100	43	37	49	39	60	2

CC_{50} Test Results for β -D-2'-C-methyl-7-methyl-6-phenyl-3,3a,5,8a-tetrahydro-1,3,4,5,7a-penta-aza-s-indacen-8-one (Compound F)

Compound	CC_{50}	BVDV	YFV	DENV 2	WNV	CVB-2	Sb-1	REO
F	>100	10	2.5	1.3	1	37	43	2

This invention has been described with reference to its preferred embodiments. Variations and modifications of the invention, will be obvious to those skilled in the art from the foregoing detailed description of the invention.

TABLE 1

R ²	R ³	X ¹	X ²	Y
20	acyl	H	CH ₃	H
	acyl	H	CH ₃	Br
	acyl	H	CH ₃	NH-cyclopropyl
	acyl	H	CH ₃	NH-methyl
	acyl	H	CH ₃	NH-ethyl
	acyl	H	CH ₃	NH-acetyl
25	acyl	H	CH ₃	OH
	acyl	H	CH ₃	OMe
	acyl	H	CH ₃	OEt
	acyl	H	CH ₃	O-cyclopropyl
	acyl	H	CH ₃	O-acetyl
	acyl	H	CH ₃	SH
	acyl	H	CH ₃	SMe
30	acyl	H	CH ₃	SEt
	acyl	H	CH ₃	S-cyclopropyl
	acyl	H	CH ₃	F
	acyl	H	CH ₃	Cl
	acyl	H	CH ₃	Br
	acyl	H	CH ₃	I
35	acyl	acyl	CH ₃	H
	acyl	acyl	CH ₃	NH ₂
	acyl	acyl	CH ₃	NH-cyclopropyl
	acyl	acyl	CH ₃	NH-methyl
	acyl	acyl	CH ₃	NH-ethyl
	acyl	acyl	CH ₃	NH-acetyl
40	acyl	acyl	CH ₃	OH
	acyl	acyl	CH ₃	OMe
	acyl	acyl	CH ₃	OEt
	acyl	acyl	CH ₃	O-cyclopropyl
	acyl	acyl	CH ₃	O-acetyl
	acyl	acyl	CH ₃	SH
45	acyl	acyl	CH ₃	SMe
	acyl	acyl	CH ₃	SEt
	acyl	acyl	CH ₃	S-cyclopropyl
	acyl	acyl	CH ₃	F
	acyl	acyl	CH ₃	Cl
	acyl	acyl	CH ₃	Br
	acyl	acyl	CH ₃	I
50	acyl	amino acid	CH ₃	H
	acyl	amino acid	CH ₃	NH ₂
	acyl	amino acid	CH ₃	NH-cyclopropyl
	acyl	amino acid	CH ₃	NH-methyl
	acyl	amino acid	CH ₃	NH-ethyl
	acyl	amino acid	CH ₃	NH-acetyl
55	acyl	amino acid	CH ₃	OH
	acyl	amino acid	CH ₃	OMe
	acyl	amino acid	CH ₃	OEt
	acyl	amino acid	CH ₃	O-cyclopropyl

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
acyl	amino acid	CH ₃	Br	O-acetyl
acyl	amino acid	CH ₃	Br	SH
acyl	amino acid	CH ₃	Br	SMe
acyl	amino acid	CH ₃	Br	SEt
acyl	amino acid	CH ₃	Br	S-cyclopropyl
acyl	amino acid	CH ₃	Br	F
acyl	amino acid	CH ₃	Br	Cl
acyl	amino acid	CH ₃	Br	Br
acyl	amino acid	CH ₃	Br	I
H	acyl	CH ₃	Br	H
H	acyl	CH ₃	Br	NH ₂
H	acyl	CH ₃	Br	NH-cyclopropyl
H	acyl	CH ₃	Br	NH-methyl
H	acyl	CH ₃	Br	NH-ethyl
H	acyl	CH ₃	Br	NH-acetyl
H	acyl	CH ₃	Br	OH
H	acyl	CH ₃	Br	OMe
H	acyl	CH ₃	Br	OEt
H	acyl	CH ₃	Br	O-cyclopropyl
H	acyl	CH ₃	Br	O-acetyl
H	acyl	CH ₃	Br	SH
H	acyl	CH ₃	Br	SMe
H	acyl	CH ₃	Br	S-cyclopropyl
H	acyl	CH ₃	Br	F
H	acyl	CH ₃	Br	Cl
H	acyl	CH ₃	Br	Br
H	acyl	CH ₃	Br	I
H	amino acid	CH ₃	Br	H
H	amino acid	CH ₃	Br	NH ₂
H	amino acid	CH ₃	Br	NH-cyclopropyl
H	amino acid	CH ₃	Br	NH-methyl
H	amino acid	CH ₃	Br	NH-ethyl
H	amino acid	CH ₃	Br	NH-acetyl
H	amino acid	CH ₃	Br	OH
H	amino acid	CH ₃	Br	OMe
H	amino acid	CH ₃	Br	OEt
H	amino acid	CH ₃	Br	O-cyclopropyl
H	amino acid	CH ₃	Br	O-acetyl
H	amino acid	CH ₃	Br	SH
H	amino acid	CH ₃	Br	SMe
H	amino acid	CH ₃	Br	SEt
H	amino acid	CH ₃	Br	S-cyclopropyl
H	amino acid	CH ₃	Br	F
H	amino acid	CH ₃	Br	Cl
H	amino acid	CH ₃	Br	Br
H	amino acid	CH ₃	Br	I
amino acid	amino acid	CH ₃	Br	H
amino acid	amino acid	CH ₃	Br	NH ₂
amino acid	amino acid	CH ₃	Br	NH-cyclopropyl
amino acid	amino acid	CH ₃	Br	NH-methyl
amino acid	amino acid	CH ₃	Br	NH-ethyl
amino acid	amino acid	CH ₃	Br	NH-acetyl
amino acid	amino acid	CH ₃	Br	OH
amino acid	amino acid	CH ₃	Br	OMe
amino acid	amino acid	CH ₃	Br	OEt
amino acid	amino acid	CH ₃	Br	O-cyclopropyl
amino acid	amino acid	CH ₃	Br	O-acetyl
amino acid	amino acid	CH ₃	Br	SH
amino acid	amino acid	CH ₃	Br	SMe
amino acid	amino acid	CH ₃	Br	SEt
amino acid	amino acid	CH ₃	Br	S-cyclopropyl
amino acid	amino acid	CH ₃	Br	F
amino acid	amino acid	CH ₃	Br	Cl
amino acid	amino acid	CH ₃	Br	Br
amino acid	amino acid	CH ₃	Br	I
amino acid	H	CH ₃	Br	H
amino acid	H	CH ₃	Br	NH ₂
amino acid	H	CH ₃	Br	NH-cyclopropyl
amino acid	H	CH ₃	Br	NH-methyl
amino acid	H	CH ₃	Br	NH-ethyl
amino acid	H	CH ₃	Br	NH-acetyl
amino acid	H	CH ₃	Br	OH
amino acid	H	CH ₃	Br	OMe
amino acid	H	CH ₃	Br	OEt
amino acid	H	CH ₃	Br	O-cyclopropyl
amino acid	H	CH ₃	Br	O-acetyl

TABLE 1-continued

	R ²	R ³	X ¹	X ²	Y
5	amino acid	H	CH ₃	Br	SH
	amino acid	H	CH ₃	Br	SMe
	amino acid	H	CH ₃	Br	SEt
	amino acid	H	CH ₃	Br	S-cyclopropyl
	amino acid	H	CH ₃	Br	F
	amino acid	H	CH ₃	Br	Cl
10	amino acid	H	CH ₃	Br	Br
	amino acid	H	CH ₃	Br	I
	amino acid	acyl	CH ₃	Br	H
	amino acid	acyl	CH ₃	Br	NH ₂
	amino acid	acyl	CH ₃	Br	NH-cyclopropyl
	amino acid	acyl	CH ₃	Br	NH-methyl
15	amino acid	acyl	CH ₃	Br	NH-ethyl
	amino acid	acyl	CH ₃	Br	NH-acetyl
	amino acid	acyl	CH ₃	Br	OH
	amino acid	acyl	CH ₃	Br	OMe
	amino acid	acyl	CH ₃	Br	OEt
	amino acid	acyl	CH ₃	Br	O-cyclopropyl
20	amino acid	acyl	CH ₃	Br	O-acetyl
	amino acid	acyl	CH ₃	Br	SH
	amino acid	acyl	CH ₃	Br	SMe
	amino acid	acyl	CH ₃	Br	S-cyclopropyl
	amino acid	acyl	CH ₃	Br	F
	amino acid	acyl	CH ₃	Br	Cl
	amino acid	acyl	CH ₃	Br	Br
25	amino acid	acyl	CH ₃	Br	I
	acyl	H	CF ₃	Br	H
	acyl	H	CF ₃	Br	NH ₂
	acyl	H	CF ₃	Br	NH-cyclopropyl
	acyl	H	CF ₃	Br	NH-methyl
	acyl	H	CF ₃	Br	NH-ethyl
30	acyl	H	CF ₃	Br	NH-acetyl
	acyl	H	CF ₃	Br	OH
	acyl	H	CF ₃	Br	OMe
	acyl	H	CF ₃	Br	OEt
	acyl	H	CF ₃	Br	O-cyclopropyl
	acyl	H	CF ₃	Br	O-acetyl
35	acyl	H	CF ₃	Br	SH
	acyl	H	CF ₃	Br	SMe
	acyl	H	CF ₃	Br	S-cyclopropyl
	acyl	H	CF ₃	Br	F
	acyl	H	CF ₃	Br	Cl
	acyl	H	CF ₃	Br	Br
40	acyl	H	CF ₃	Br	I
	acyl	acyl	CF ₃	Br	H
	acyl	acyl	CF ₃	Br	NH ₂
	acyl	acyl	CF ₃	Br	NH-methyl
	acyl	acyl	CF ₃	Br	NH-ethyl
	acyl	acyl	CF ₃	Br	NH-acetyl
	acyl	acyl	CF ₃	Br	OH
45	acyl	acyl	CF ₃	Br	OMe
	acyl	acyl	CF ₃	Br	OEt
	acyl	acyl	CF ₃	Br	O-cyclopropyl
	acyl	acyl	CF ₃	Br	O-acetyl
	acyl	acyl	CF ₃	Br	SH
	acyl	acyl	CF ₃	Br	SMe
50	acyl	acyl	CF ₃	Br	SEt
	acyl	acyl	CF ₃	Br	S-cyclopropyl
	acyl	acyl	CF ₃	Br	F
	acyl	acyl	CF ₃	Br	Cl
	acyl	acyl	CF ₃	Br	Br
	acyl	acyl	CF ₃	Br	I
55	acyl	amino acid	CF ₃	Br	H
	acyl	amino acid	CF ₃	Br	NH ₂
	acyl	amino acid	CF ₃	Br	NH-cyclopropyl
	acyl	amino acid	CF ₃	Br	NH-methyl
	acyl	amino acid	CF ₃	Br	NH-ethyl
	acyl	amino acid	CF ₃	Br	NH-acetyl
	acyl	amino acid	CF ₃	Br	OH
60	acyl	amino acid	CF ₃	Br	OMe
	acyl	amino acid	CF ₃	Br	OEt
	acyl	amino acid	CF ₃	Br	O-cyclopropyl
	acyl	amino acid	CF ₃	Br	O-acetyl
	acyl	amino acid	CF ₃	Br	SH
	acyl	amino acid	CF ₃	Br	SMe
65	acyl	amino acid	CF ₃	Br	SEt
	acyl	amino acid	CF ₃	Br	S-cyclopropyl

TABLE 1-continued

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TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
acyl	amino acid	Br	Br	Br
acyl	amino acid	Br	Br	I
H	acyl	Br	Br	H
H	acyl	Br	Br	NH ₂
H	acyl	Br	Br	NH-cyclopropyl
H	acyl	Br	Br	NH-methyl
H	acyl	Br	Br	NH-ethyl
H	acyl	Br	Br	NH-acetyl
H	acyl	Br	Br	OH
H	acyl	Br	Br	OMe
H	acyl	Br	Br	OEt
H	acyl	Br	Br	O-cyclopropyl
H	acyl	Br	Br	O-acetyl
H	acyl	Br	Br	SH
H	acyl	Br	Br	SMe
H	acyl	Br	Br	SEt
H	acyl	Br	Br	S-cyclopropyl
H	acyl	Br	Br	F
H	acyl	Br	Br	Cl
H	acyl	Br	Br	Br
H	acyl	Br	Br	I
H	amino acid	Br	Br	H
H	amino acid	Br	Br	NH ₂
H	amino acid	Br	Br	NH-cyclopropyl
H	amino acid	Br	Br	NH-methyl
H	amino acid	Br	Br	NH-ethyl
H	amino acid	Br	Br	NH-acetyl
H	amino acid	Br	Br	OH
H	amino acid	Br	Br	OMe
H	amino acid	Br	Br	OEt
H	amino acid	Br	Br	O-cyclopropyl
H	amino acid	Br	Br	O-acetyl
H	amino acid	Br	Br	SH
H	amino acid	Br	Br	SMe
H	amino acid	Br	Br	SEt
H	amino acid	Br	Br	S-cyclopropyl
H	amino acid	Br	Br	F
H	amino acid	Br	Br	Cl
H	amino acid	Br	Br	Br
H	amino acid	Br	Br	I
H	amino acid	Br	Br	H
amino acid	amino acid	Br	Br	H
amino acid	amino acid	Br	Br	NH ₂
amino acid	amino acid	Br	Br	NH-cyclopropyl
amino acid	amino acid	Br	Br	NH-methyl
amino acid	amino acid	Br	Br	NH-ethyl
amino acid	amino acid	Br	Br	NH-acetyl
amino acid	amino acid	Br	Br	OH
amino acid	amino acid	Br	Br	OMe
amino acid	amino acid	Br	Br	OEt
amino acid	amino acid	Br	Br	O-cyclopropyl
amino acid	amino acid	Br	Br	O-acetyl
amino acid	amino acid	Br	Br	SH
amino acid	amino acid	Br	Br	SMe
amino acid	amino acid	Br	Br	SEt
amino acid	amino acid	Br	Br	S-cyclopropyl
amino acid	amino acid	Br	Br	F
amino acid	amino acid	Br	Br	Cl
amino acid	amino acid	Br	Br	Br
amino acid	amino acid	Br	Br	I
amino acid	H	Br	Br	H
amino acid	H	Br	Br	NH ₂
amino acid	H	Br	Br	NH-cyclopropyl
amino acid	H	Br	Br	NH-methyl
amino acid	H	Br	Br	NH-ethyl
amino acid	H	Br	Br	NH-acetyl
amino acid	H	Br	Br	OH
amino acid	H	Br	Br	OMe
amino acid	H	Br	Br	OEt
amino acid	H	Br	Br	O-cyclopropyl
amino acid	H	Br	Br	O-acetyl
amino acid	H	Br	Br	SH
amino acid	H	Br	Br	SMe
amino acid	H	Br	Br	SEt
amino acid	H	Br	Br	S-cyclopropyl
amino acid	H	Br	Br	F
amino acid	H	Br	Br	Cl
amino acid	H	Br	Br	Br
amino acid	H	Br	Br	I

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
5	amino acid	H	Br	I
	amino acid	acyl	Br	H
	amino acid	acyl	Br	NH ₂
	amino acid	acyl	Br	NH-cyclopropyl
	amino acid	acyl	Br	NH-methyl
	amino acid	acyl	Br	NH-ethyl
10	amino acid	acyl	Br	NH-acetyl
	amino acid	acyl	Br	OH
	amino acid	acyl	Br	OMe
	amino acid	acyl	Br	OEt
	amino acid	acyl	Br	O-cyclopropyl
	amino acid	acyl	Br	O-acetyl
15	amino acid	acyl	Br	SH
	amino acid	acyl	Br	SMe
	amino acid	acyl	Br	SEt
	amino acid	acyl	Br	S-cyclopropyl
	amino acid	acyl	Br	F
	amino acid	acyl	Br	Cl
	amino acid	acyl	Br	Br
20	amino acid	acyl	Br	I
	acyl	H	Cl	H
	acyl	H	Cl	NH ₂
	acyl	H	Cl	NH-cyclopropyl
	acyl	H	Cl	NH-methyl
	acyl	H	Cl	NH-ethyl
25	acyl	H	Cl	NH-acetyl
	acyl	H	Cl	OH
	acyl	H	Cl	OMe
	acyl	H	Cl	OEt
	acyl	H	Cl	O-cyclopropyl
	acyl	H	Cl	O-acetyl
30	acyl	H	Cl	SH
	acyl	H	Cl	SMe
	acyl	H	Cl	SEt
	acyl	H	Cl	S-cyclopropyl
	acyl	H	Cl	F
	acyl	H	Cl	Cl
	acyl	H	Cl	Br
35	acyl	H	Cl	I
	acyl	acyl	Cl	H
	acyl	acyl	Cl	NH ₂
	acyl	acyl	Cl	NH-cyclopropyl
	acyl	acyl	Cl	NH-methyl
	acyl	acyl	Cl	NH-ethyl
40	acyl	acyl	Cl	NH-acetyl
	acyl	acyl	Cl	OH
	acyl	acyl	Cl	OMe
	acyl	acyl	Cl	OEt
	acyl	acyl	Cl	O-cyclopropyl
	acyl	acyl	Cl	O-acetyl
45	acyl	acyl	Cl	SH
	acyl	acyl	Cl	SMe
	acyl	acyl	Cl	SEt
	acyl	acyl	Cl	S-cyclopropyl
	acyl	acyl	Cl	F
	acyl	acyl	Cl	Cl
50	acyl	acyl	Cl	Br
	acyl	acyl	Cl	I
	acyl	amino acid	Cl	H
	acyl	amino acid	Cl	NH ₂
	acyl	amino acid	Cl	NH-cyclopropyl
	acyl	amino acid	Cl	NH-methyl
55	acyl	amino acid	Cl	NH-ethyl
	acyl	amino acid	Cl	NH-acetyl
	acyl	amino acid	Cl	OH
	acyl	amino acid	Cl	OMe
	acyl	amino acid	Cl	OEt
	acyl	amino acid	Cl	O-cyclopropyl
	acyl	amino acid	Cl	O-acetyl
60	acyl	amino acid	Cl	SH
	acyl	amino acid	Cl	SMe
	acyl	amino acid	Cl	SEt
	acyl	amino acid	Cl	S-cyclopropyl
	acyl	amino acid	Cl	F
	acyl	amino acid	Cl	Cl
65	acyl	amino acid	Cl	Br
	acyl	amino acid	Cl	I

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
H	acyl	Cl	Br	H
H	acyl	Cl	Br	NH ₂
H	acyl	Cl	Br	NH-cyclopropyl
H	acyl	Cl	Br	NH-methyl
H	acyl	Cl	Br	NH-ethyl
H	acyl	Cl	Br	NH-acetyl
H	acyl	Cl	Br	OH
H	acyl	Cl	Br	OMe
H	acyl	Cl	Br	OEt
H	acyl	Cl	Br	O-cyclopropyl
H	acyl	Cl	Br	O-acetyl
H	acyl	Cl	Br	SH
H	acyl	Cl	Br	SMe
H	acyl	Cl	Br	SEt
H	acyl	Cl	Br	S-cyclopropyl
H	acyl	Cl	Br	F
H	acyl	Cl	Br	Cl
H	acyl	Cl	Br	Br
H	acyl	Cl	Br	I
H	amino acid	Cl	Br	H
H	amino acid	Cl	Br	NH ₂
H	amino acid	Cl	Br	NH-cyclopropyl
H	amino acid	Cl	Br	NH-methyl
H	amino acid	Cl	Br	NH-ethyl
H	amino acid	Cl	Br	NH-acetyl
H	amino acid	Cl	Br	OH
H	amino acid	Cl	Br	OMe
H	amino acid	Cl	Br	OEt
H	amino acid	Cl	Br	O-cyclopropyl
H	amino acid	Cl	Br	O-acetyl
H	amino acid	Cl	Br	SH
H	amino acid	Cl	Br	SMe
H	amino acid	Cl	Br	SEt
H	amino acid	Cl	Br	S-cyclopropyl
H	amino acid	Cl	Br	F
H	amino acid	Cl	Br	Cl
H	amino acid	Cl	Br	Br
H	amino acid	Cl	Br	I
amino acid	amino acid	Cl	Br	H
amino acid	amino acid	Cl	Br	NH ₂
amino acid	amino acid	Cl	Br	NH-cyclopropyl
amino acid	amino acid	Cl	Br	NH-methyl
amino acid	amino acid	Cl	Br	NH-ethyl
amino acid	amino acid	Cl	Br	NH-acetyl
amino acid	amino acid	Cl	Br	OH
amino acid	amino acid	Cl	Br	OMe
amino acid	amino acid	Cl	Br	OEt
amino acid	amino acid	Cl	Br	O-cyclopropyl
amino acid	amino acid	Cl	Br	O-acetyl
amino acid	amino acid	Cl	Br	SH
amino acid	amino acid	Cl	Br	SMe
amino acid	amino acid	Cl	Br	SEt
amino acid	amino acid	Cl	Br	S-cyclopropyl
amino acid	amino acid	Cl	Br	F
amino acid	amino acid	Cl	Br	Cl
amino acid	amino acid	Cl	Br	Br
amino acid	amino acid	Cl	Br	I
amino acid	H	Cl	Br	H
amino acid	H	Cl	Br	NH ₂
amino acid	H	Cl	Br	NH-cyclopropyl
amino acid	H	Cl	Br	NH-methyl
amino acid	H	Cl	Br	NH-ethyl
amino acid	H	Cl	Br	NH-acetyl
amino acid	H	Cl	Br	OH
amino acid	H	Cl	Br	OMe
amino acid	H	Cl	Br	OEt
amino acid	H	Cl	Br	O-cyclopropyl
amino acid	H	Cl	Br	O-acetyl
amino acid	H	Cl	Br	SH
amino acid	H	Cl	Br	SMe
amino acid	H	Cl	Br	SEt
amino acid	H	Cl	Br	S-cyclopropyl
amino acid	H	Cl	Br	F
amino acid	H	Cl	Br	Cl
amino acid	H	Cl	Br	Br
amino acid	H	Cl	Br	I
amino acid	H	Cl	Br	H
amino acid	acyl	Cl	Br	H

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y	
5	amino acid	acyl	Cl	Br	NH ₂
	amino acid	acyl	Cl	Br	NH-cyclopropyl
	amino acid	acyl	Cl	Br	NH-methyl
	amino acid	acyl	Cl	Br	NH-ethyl
	amino acid	acyl	Cl	Br	NH-acetyl
10	amino acid	acyl	Cl	Br	OH
	amino acid	acyl	Cl	Br	OMe
	amino acid	acyl	Cl	Br	OEt
	amino acid	acyl	Cl	Br	O-cyclopropyl
	amino acid	acyl	Cl	Br	O-acetyl
15	amino acid	acyl	Cl	Br	SH
	amino acid	acyl	Cl	Br	SMe
	amino acid	acyl	Cl	Br	SEt
	amino acid	acyl	Cl	Br	S-cyclopropyl
	amino acid	acyl	Cl	Br	F
20	amino acid	acyl	Cl	Br	Cl
	amino acid	acyl	Cl	Br	Br
	acyl	H	F	Br	I
	acyl	H	F	Br	H
	acyl	H	F	Br	NH ₂
25	acyl	H	F	Br	NH-cyclopropyl
	acyl	H	F	Br	NH-methyl
	acyl	H	F	Br	NH-ethyl
	acyl	H	F	Br	NH-acetyl
	acyl	H	F	Br	OH
30	acyl	H	F	Br	OMe
	acyl	H	F	Br	OEt
	acyl	H	F	Br	O-cyclopropyl
	acyl	H	F	Br	O-acetyl
	acyl	H	F	Br	SH
35	acyl	H	F	Br	SMe
	acyl	H	F	Br	SEt
	acyl	H	F	Br	S-cyclopropyl
	acyl	H	F	Br	F
	acyl	H	F	Br	Cl
40	acyl	H	F	Br	Br
	acyl	H	F	Br	I
	acyl	acyl	F	Br	H
	acyl	acyl	F	Br	NH ₂
	acyl	acyl	F	Br	NH-cyclopropyl
45	acyl	acyl	F	Br	NH-methyl
	acyl	acyl	F	Br	NH-ethyl
	acyl	acyl	F	Br	NH-acetyl
	acyl	acyl	F	Br	OH
	acyl	acyl	F	Br	OMe
50	acyl	acyl	F	Br	OEt
	acyl	acyl	F	Br	O-cyclopropyl
	acyl	acyl	F	Br	O-acetyl
	acyl	acyl	F	Br	SH
	acyl	acyl	F	Br	SMe
55	acyl	acyl	F	Br	SEt
	acyl	acyl	F	Br	S-cyclopropyl
	acyl	acyl	F	Br	F
	acyl	acyl	F	Br	Cl
	acyl	acyl	F	Br	Br
60	acyl	acyl	F	Br	I
	acyl	amino acid	F	Br	H
	acyl	amino acid	F	Br	NH ₂
	acyl	amino acid	F	Br	NH-cyclopropyl
	acyl	amino acid	F	Br	NH-methyl
65	acyl	amino acid	F	Br	NH-ethyl
	acyl	amino acid	F	Br	NH-acetyl
	acyl	amino acid	F	Br	OH
	acyl	amino acid	F	Br	OMe
	acyl	amino acid	F	Br	OEt
	acyl	amino acid	F	Br	O-cyclopropyl
	acyl	amino acid	F	Br	O-acetyl
	acyl	amino acid	F	Br	SH
	acyl	amino acid	F	Br	SMe
	acyl	amino acid	F	Br	SEt
	acyl	amino acid	F	Br	S-cyclopropyl
	acyl	amino acid	F	Br	F
	acyl	amino acid	F	Br	Cl
	acyl	amino acid	F	Br	Br
	acyl	amino acid	F	Br	I
	H	acyl	F	Br	H
	H	acyl	F	Br	NH ₂

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
H	acyl	F	Br	NH-cyclopropyl
H	acyl	F	Br	NH-methyl
H	acyl	F	Br	NH-ethyl
H	acyl	F	Br	NH-acetyl
H	acyl	F	Br	OH
H	acyl	F	Br	OMe
H	acyl	F	Br	OEt
H	acyl	F	Br	O-cyclopropyl
H	acyl	F	Br	O-acetyl
H	acyl	F	Br	SH
H	acyl	F	Br	SMe
H	acyl	F	Br	SEt
H	acyl	F	Br	S-cyclopropyl
H	acyl	F	Br	F
H	acyl	F	Br	Cl
H	acyl	F	Br	Br
H	acyl	F	Br	I
H	amino acid	F	Br	H
H	amino acid	F	Br	NH ₂
H	amino acid	F	Br	NH-cyclopropyl
H	amino acid	F	Br	NH-methyl
H	amino acid	F	Br	NH-ethyl
H	amino acid	F	Br	NH-acetyl
H	amino acid	F	Br	OH
H	amino acid	F	Br	OMe
H	amino acid	F	Br	OEt
H	amino acid	F	Br	O-cyclopropyl
H	amino acid	F	Br	O-acetyl
H	amino acid	F	Br	SH
H	amino acid	F	Br	SMe
H	amino acid	F	Br	SEt
H	amino acid	F	Br	S-cyclopropyl
H	amino acid	F	Br	F
H	amino acid	F	Br	Cl
H	amino acid	F	Br	Br
H	amino acid	F	Br	I
amino acid	amino acid	F	Br	H
amino acid	amino acid	F	Br	NH ₂
amino acid	amino acid	F	Br	NH-cyclopropyl
amino acid	amino acid	F	Br	NH-methyl
amino acid	amino acid	F	Br	NH-ethyl
amino acid	amino acid	F	Br	NH-acetyl
amino acid	amino acid	F	Br	OH
amino acid	amino acid	F	Br	OMe
amino acid	amino acid	F	Br	OEt
amino acid	amino acid	F	Br	O-cyclopropyl
amino acid	amino acid	F	Br	O-acetyl
amino acid	amino acid	F	Br	SH
amino acid	amino acid	F	Br	SMe
amino acid	amino acid	F	Br	SEt
amino acid	amino acid	F	Br	S-cyclopropyl
amino acid	amino acid	F	Br	F
amino acid	amino acid	F	Br	Cl
amino acid	amino acid	F	Br	Br
amino acid	amino acid	F	Br	I
amino acid	H	F	Br	H
amino acid	H	F	Br	NH ₂
amino acid	H	F	Br	NH-cyclopropyl
amino acid	H	F	Br	NH-methyl
amino acid	H	F	Br	NH-ethyl
amino acid	H	F	Br	NH-acetyl
amino acid	H	F	Br	OH
amino acid	H	F	Br	OMe
amino acid	H	F	Br	OEt
amino acid	H	F	Br	O-cyclopropyl
amino acid	H	F	Br	O-acetyl
amino acid	H	F	Br	SH
amino acid	H	F	Br	SMe
amino acid	H	F	Br	SEt
amino acid	H	F	Br	S-cyclopropyl
amino acid	H	F	Br	F
amino acid	H	F	Br	Cl
amino acid	H	F	Br	Br
amino acid	H	F	Br	I
amino acid	acyl	F	Br	H
amino acid	acyl	F	Br	NH ₂
amino acid	acyl	F	Br	NH-cyclopropyl

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y	
5	amino acid	acyl	F	Br	NH-methyl
	amino acid	acyl	F	Br	NH-ethyl
	amino acid	acyl	F	Br	NH-acetyl
	amino acid	acyl	F	Br	OH
	amino acid	acyl	F	Br	OMe
	amino acid	acyl	F	Br	OEt
10	amino acid	acyl	F	Br	O-cyclopropyl
	amino acid	acyl	F	Br	O-acetyl
	amino acid	acyl	F	Br	SH
	amino acid	acyl	F	Br	SMe
	amino acid	acyl	F	Br	SEt
	amino acid	acyl	F	Br	S-cyclopropyl
15	amino acid	acyl	F	Br	F
	amino acid	acyl	F	Br	Cl
	amino acid	acyl	F	Br	Br
	amino acid	acyl	F	Br	I
	acyl	H	I	Br	H
	acyl	H	NH ₂	Br	II
20	acyl	H	NH ₂	Br	NH ₂
	acyl	H	NH ₂	Br	NH-cyclopropyl
	acyl	H	NH ₂	Br	NH-methyl
	acyl	II	NH ₂	Br	NH-ethyl
	acyl	II	NH ₂	Br	NH-acetyl
	acyl	II	NH ₂	Br	OH
	acyl	II	NH ₂	Br	OMe
25	acyl	II	NH ₂	Br	OEt
	acyl	H	NH ₂	Br	O-cyclopropyl
	acyl	H	NH ₂	Br	O-acetyl
	acyl	H	NH ₂	Br	SH
	acyl	II	NH ₂	Br	SMe
	acyl	II	NH ₂	Br	SEt
30	acyl	H	NH ₂	Br	S-cyclopropyl
	acyl	II	NH ₂	Br	F
	acyl	II	NH ₂	Br	Cl
	acyl	H	NH ₂	Br	Br
	acyl	H	NH ₂	Br	I
	acyl	acyl	NH ₂	Br	H
35	acyl	acyl	NH ₂	Br	NH ₂
	acyl	acyl	NH ₂	Br	NH-cyclopropyl
	acyl	acyl	NH ₂	Br	NH-methyl
	acyl	acyl	NH ₂	Br	NH-ethyl
	acyl	acyl	NH ₂	Br	NH-acetyl
	acyl	acyl	NH ₂	Br	OH
	acyl	acyl	NH ₂	Br	OMe
40	acyl	acyl	NH ₂	Br	OEt
	acyl	acyl	NH ₂	Br	O-cyclopropyl
	acyl	acyl	NH ₂	Br	O-acetyl
	acyl	acyl	NH ₂	Br	SH
	acyl	acyl	NH ₂	Br	SMe
	acyl	acyl	NH ₂	Br	SEt
45	acyl	acyl	NH ₂	Br	S-cyclopropyl
	acyl	acyl	NH ₂	Br	F
	acyl	acyl	NH ₂	Br	Cl
	acyl	acyl	NH ₂	Br	Br
	acyl	acyl	NH ₂	Br	I
	acyl	amino acid	NH ₂	Br	H
50	acyl	amino acid	NH ₂	Br	NH ₂
	acyl	amino acid	NH ₂	Br	NH-cyclopropyl
	acyl	amino acid	NH ₂	Br	NH-methyl
	acyl	amino acid	NH ₂	Br	NH-ethyl
	acyl	amino acid	NH ₂	Br	NH-acetyl
	acyl	amino acid	NH ₂	Br	OH
	acyl	amino acid	NH ₂	Br	OMe
55	acyl	amino acid	NH ₂	Br	OEt
	acyl	amino acid	NH ₂	Br	O-cyclopropyl
	acyl	amino acid	NH ₂	Br	O-acetyl
	acyl	amino acid	NH ₂	Br	SH
	acyl	amino acid	NH ₂	Br	SMe
	acyl	amino acid	NH ₂	Br	SEt
60	acyl	amino acid	NH ₂	Br	S-cyclopropyl
	acyl	amino acid	NH ₂	Br	F
	acyl	amino acid	NH ₂	Br	Cl
	acyl	amino acid	NH ₂	Br	Br
	acyl	amino acid	NH ₂	Br	I
	H	acyl	NH ₂	Br	H
65	H	acyl	NH ₂	Br	NH ₂
	H	acyl	NH ₂	Br	NH-cyclopropyl

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
H	acyl	NH ₂	Br	NH-methyl
H	acyl	NH ₂	Br	NH-ethyl
H	acyl	NH ₂	Br	NH-acetyl
H	acyl	NH ₂	Br	OH
H	acyl	NH ₂	Br	OMe
H	acyl	NH ₂	Br	OEt
H	acyl	NH ₂	Br	O-cyclopropyl
H	acyl	NH ₂	Br	O-acetyl
H	acyl	NH ₂	Br	SH
H	acyl	NH ₂	Br	SMe
H	acyl	NH ₂	Br	SEt
H	acyl	NH ₂	Br	S-cyclopropyl
H	acyl	NH ₂	Br	F
H	acyl	NH ₂	Br	Cl
H	acyl	NH ₂	Br	Br
H	acyl	NH ₂	Br	I
H	amino acid	NH ₂	Br	H
H	amino acid	NH ₂	Br	NH ₂
H	amino acid	NH ₂	Br	NH-cyclopropyl
H	amino acid	NH ₂	Br	NH-methyl
H	amino acid	NH ₂	Br	NH-ethyl
H	amino acid	NH ₂	Br	NH-acetyl
H	amino acid	NH ₂	Br	OH
H	amino acid	NH ₂	Br	OMe
H	amino acid	NH ₂	Br	OEt
H	amino acid	NH ₂	Br	O-cyclopropyl
H	amino acid	NH ₂	Br	O-acetyl
H	amino acid	NH ₂	Br	SH
H	amino acid	NH ₂	Br	SMe
H	amino acid	NH ₂	Br	SEt
H	amino acid	NH ₂	Br	S-cyclopropyl
H	amino acid	NH ₂	Br	F
H	amino acid	NH ₂	Br	Cl
H	amino acid	NH ₂	Br	Br
H	amino acid	NH ₂	Br	I
H	amino acid	NH ₂	Br	H
amino acid	amino acid	NH ₂	Br	H
amino acid	amino acid	NH ₂	Br	NH ₂
amino acid	amino acid	NH ₂	Br	NH-cyclopropyl
amino acid	amino acid	NH ₂	Br	NH-methyl
amino acid	amino acid	NH ₂	Br	NH-ethyl
amino acid	amino acid	NH ₂	Br	NH-acetyl
amino acid	amino acid	NH ₂	Br	OH
amino acid	amino acid	NH ₂	Br	OMe
amino acid	amino acid	NH ₂	Br	OEt
amino acid	amino acid	NH ₂	Br	O-cyclopropyl
amino acid	amino acid	NH ₂	Br	O-acetyl
amino acid	amino acid	NH ₂	Br	SH
amino acid	amino acid	NH ₂	Br	SMe
amino acid	amino acid	NH ₂	Br	SEt
amino acid	amino acid	NH ₂	Br	S-cyclopropyl
amino acid	amino acid	NH ₂	Br	F
amino acid	amino acid	NH ₂	Br	Cl
amino acid	amino acid	NH ₂	Br	Br
amino acid	amino acid	NH ₂	Br	I
amino acid	amino acid	NH ₂	Br	H
amino acid	H	NH ₂	Br	H
amino acid	H	NH ₂	Br	NH ₂
amino acid	H	NH ₂	Br	NH-cyclopropyl
amino acid	H	NH ₂	Br	NH-methyl
amino acid	H	NH ₂	Br	NH-ethyl
amino acid	H	NH ₂	Br	NH-acetyl
amino acid	H	NH ₂	Br	OH
amino acid	H	NH ₂	Br	OMe
amino acid	H	NH ₂	Br	OEt
amino acid	H	NH ₂	Br	O-cyclopropyl
amino acid	H	NH ₂	Br	O-acetyl
amino acid	H	NH ₂	Br	SH
amino acid	H	NH ₂	Br	SMe
amino acid	H	NH ₂	Br	SEt
amino acid	H	NH ₂	Br	S-cyclopropyl
amino acid	H	NH ₂	Br	F
amino acid	H	NH ₂	Br	Cl
amino acid	H	NH ₂	Br	Br
amino acid	H	NH ₂	Br	I
amino acid	H	NH ₂	Br	H
amino acid	acyl	NH ₂	Br	NH ₂
amino acid	acyl	NH ₂	Br	NH-cyclopropyl
amino acid	acyl	NH ₂	Br	NH-methyl

TABLE 1-continued

R ²		R ³	X ¹	X ²	Y
5	amino acid	acyl	NH ₂	Br	NH-ethyl
	amino acid	acyl	NH ₂	Br	NH-acetyl
	amino acid	acyl	NH ₂	Br	OH
	amino acid	acyl	NH ₂	Br	OMe
	amino acid	acyl	NH ₂	Br	OEt
	amino acid	acyl	NH ₂	Br	O-cyclopropyl
10	amino acid	acyl	NH ₂	Br	O-acetyl
	amino acid	acyl	NH ₂	Br	SH
	amino acid	acyl	NH ₂	Br	SMe
	amino acid	acyl	NH ₂	Br	SEt
	amino acid	acyl	NH ₂	Br	S-cyclopropyl
	amino acid	acyl	NH ₂	Br	F
15	amino acid	acyl	NH ₂	Br	Cl
	amino acid	acyl	NH ₂	Br	Br
	amino acid	acyl	NH ₂	Br	I
	acyl	H	SH	Br	H
	acyl	H	SH	Br	NH ₂
	acyl	H	SH	Br	NH-cyclopropyl
20	acyl	H	SH	Br	NH-methyl
	acyl	H	SH	Br	NH-ethyl
	acyl	H	SH	Br	NH-acetyl
	acyl	H	SH	Br	OH
	acyl	H	SH	Br	OMe
	acyl	H	SH	Br	OEt
25	acyl	H	SH	Br	O-cyclopropyl
	acyl	H	SH	Br	O-acetyl
	acyl	H	SH	Br	SH
	acyl	H	SH	Br	SMe
	acyl	H	SH	Br	SEt
	acyl	H	SH	Br	S-cyclopropyl
30	acyl	H	SH	Br	F
	acyl	H	SH	Br	Cl
	acyl	H	SH	Br	Br
	acyl	H	SH	Br	I
	acyl	acyl	SH	Br	H
	acyl	acyl	SH	Br	NH ₂
35	acyl	acyl	SH	Br	NH-cyclopropyl
	acyl	acyl	SH	Br	NH-methyl
	acyl	acyl	SH	Br	NH-ethyl
	acyl	acyl	SH	Br	NH-acetyl
	acyl	acyl	SH	Br	OH
	acyl	acyl	SH	Br	OMe
40	acyl	acyl	SH	Br	OEt
	acyl	acyl	SH	Br	O-cyclopropyl
	acyl	acyl	SH	Br	O-acetyl
	acyl	acyl	SH	Br	SH
	acyl	acyl	SH	Br	SMe
	acyl	acyl	SH	Br	SEt
45	acyl	acyl	SH	Br	S-cyclopropyl
	acyl	acyl	SH	Br	F
	acyl	acyl	SH	Br	Cl
	acyl	acyl	SH	Br	Br
	acyl	acyl	SH	Br	I
	acyl	amino acid	SH	Br	H
50	acyl	amino acid	SH	Br	NH ₂
	acyl	amino acid	SH	Br	NH-cyclopropyl
	acyl	amino acid	SH	Br	NH-methyl
	acyl	amino acid	SH	Br	NH-ethyl
	acyl	amino acid	SH	Br	NH-acetyl
	acyl	amino acid	SH	Br	OH
55	acyl	amino acid	SH	Br	OMe
	acyl	amino acid	SH	Br	OEt
	acyl	amino acid	SH	Br	O-cyclopropyl
	acyl	amino acid	SH	Br	O-acetyl
	acyl	amino acid	SH	Br	SH
	acyl	amino acid	SH	Br	SMe
60	acyl	amino acid	SH	Br	SEt
	acyl	amino acid	SH	Br	S-cyclopropyl
	acyl	amino acid	SH	Br	F
	acyl	amino acid	SH	Br	Cl
	acyl	amino acid	SH	Br	Br
	acyl	amino acid	SH	Br	I
65	H	acyl	SH	Br	H
	H	acyl	SH	Br	NH ₂
	H	acyl	SH	Br	NH-cyclopropyl
	H	acyl	SH	Br	NH-methyl
	H	acyl	SH	Br	NH-ethyl

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
H	acyl	SH	Br	NH-acetyl
H	acyl	SH	Br	OH
H	acyl	SH	Br	OMe
H	acyl	SH	Br	OEt
H	acyl	SH	Br	O-cyclopropyl
H	acyl	SH	Br	O-acetyl
H	acyl	SH	Br	SH
H	acyl	SH	Br	SMe
H	acyl	SH	Br	SEt
H	acyl	SH	Br	S-cyclopropyl
H	acyl	SH	Br	F
H	acyl	SH	Br	Cl
H	acyl	SH	Br	Br
H	acyl	SH	Br	I
H	amino acid	SH	Br	H
H	amino acid	SH	Br	NH ₂
H	amino acid	SH	Br	NH-cyclopropyl
H	amino acid	SH	Br	NH-methyl
H	amino acid	SH	Br	NH-ethyl
H	amino acid	SH	Br	NH-acetyl
H	amino acid	SH	Br	OH
H	amino acid	SH	Br	OMe
H	amino acid	SH	Br	OEt
H	amino acid	SH	Br	O-cyclopropyl
H	amino acid	SH	Br	O-acetyl
H	amino acid	SH	Br	SH
H	amino acid	SH	Br	SMe
H	amino acid	SH	Br	SEt
H	amino acid	SH	Br	S-cyclopropyl
H	amino acid	SH	Br	F
H	amino acid	SH	Br	Cl
H	amino acid	SH	Br	Br
H	amino acid	SH	Br	I
amino acid	amino acid	SH	Br	H
amino acid	amino acid	SH	Br	NH ₂
amino acid	amino acid	SH	Br	NH-cyclopropyl
amino acid	amino acid	SH	Br	NH-methyl
amino acid	amino acid	SH	Br	NH-ethyl
amino acid	amino acid	SH	Br	NH-acetyl
amino acid	amino acid	SH	Br	OH
amino acid	amino acid	SH	Br	OMe
amino acid	amino acid	SH	Br	OEt
amino acid	amino acid	SH	Br	O-cyclopropyl
amino acid	amino acid	SH	Br	O-acetyl
amino acid	amino acid	SH	Br	SH
amino acid	amino acid	SH	Br	SMe
amino acid	amino acid	SH	Br	SEt
amino acid	amino acid	SH	Br	S-cyclopropyl
amino acid	amino acid	SH	Br	F
amino acid	amino acid	SH	Br	Cl
amino acid	amino acid	SH	Br	Br
amino acid	amino acid	SH	Br	I
amino acid	H	SH	Br	H
amino acid	H	SH	Br	NH ₂
amino acid	H	SH	Br	NH-cyclopropyl
amino acid	H	SH	Br	NH-methyl
amino acid	H	SH	Br	NH-ethyl
amino acid	H	SH	Br	NH-acetyl
amino acid	H	SH	Br	OH
amino acid	H	SH	Br	OMe
amino acid	H	SH	Br	OEt
amino acid	H	SH	Br	O-cyclopropyl
amino acid	H	SH	Br	O-acetyl
amino acid	H	SH	Br	SH
amino acid	H	SH	Br	SMe
amino acid	H	SH	Br	SEt
amino acid	H	SH	Br	S-cyclopropyl
amino acid	H	SH	Br	F
amino acid	H	SH	Br	Cl
amino acid	H	SH	Br	Br
amino acid	H	SH	Br	I
amino acid	H	SH	Br	H
amino acid	acyl	SH	Br	NH ₂
amino acid	acyl	SH	Br	NH-cyclopropyl
amino acid	acyl	SH	Br	NH-methyl
amino acid	acyl	SH	Br	NH-ethyl
amino acid	acyl	SH	Br	NH-acetyl
amino acid	acyl	SH	Br	OH

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y	
5	amino acid	acyl	SH	Br	OH
	amino acid	acyl	SH	Br	OMe
	amino acid	acyl	SH	Br	OEt
	amino acid	acyl	SH	Br	O-cyclopropyl
	amino acid	acyl	SH	Br	O-acetyl
	amino acid	acyl	SH	Br	SH
10	amino acid	acyl	SH	Br	SMe
	amino acid	acyl	SH	Br	SEt
	amino acid	acyl	SH	Br	S-cyclopropyl
	amino acid	acyl	SH	Br	F
	amino acid	acyl	SH	Br	Cl
	amino acid	acyl	SH	Br	Br
15	amino acid	acyl	SH	Br	I
	acyl	H	OH	Br	H
	acyl	H	OH	Br	NH ₂
	acyl	H	OH	Br	NH-cyclopropyl
	acyl	H	OH	Br	NH-methyl
	acyl	H	OH	Br	NH-ethyl
20	acyl	H	OH	Br	NH-acetyl
	acyl	H	OH	Br	OH
	acyl	H	OH	Br	OMe
	acyl	H	OH	Br	OEt
	acyl	H	OH	Br	O-cyclopropyl
	acyl	H	OH	Br	O-acetyl
25	acyl	H	OH	Br	SH
	acyl	H	OH	Br	SMe
	acyl	H	OH	Br	SEt
	acyl	H	OH	Br	S-cyclopropyl
	acyl	H	OH	Br	F
	acyl	H	OH	Br	Cl
30	acyl	H	OH	Br	Br
	acyl	H	OH	Br	I
	acyl	acyl	OH	Br	H
	acyl	acyl	OH	Br	NH ₂
	acyl	acyl	OH	Br	NH-cyclopropyl
	acyl	acyl	OH	Br	NH-methyl
35	acyl	acyl	OH	Br	NH-ethyl
	acyl	acyl	OH	Br	NH-acetyl
	acyl	acyl	OH	Br	OH
	acyl	acyl	OH	Br	OMe
	acyl	acyl	OH	Br	OEt
	acyl	acyl	OH	Br	O-cyclopropyl
40	acyl	acyl	OH	Br	O-acetyl
	acyl	acyl	OH	Br	SH
	acyl	acyl	OH	Br	SMe
	acyl	acyl	OH	Br	SEt
	acyl	acyl	OH	Br	S-cyclopropyl
	acyl	acyl	OH	Br	F
45	acyl	acyl	OH	Br	Cl
	acyl	acyl	OH	Br	Br
	acyl	acyl	OH	Br	I
	acyl	amino acid	OH	Br	H
	acyl	amino acid	OH	Br	NH ₂
	acyl	amino acid	OH	Br	NH-cyclopropyl
50	acyl	amino acid	OH	Br	NH-methyl
	acyl	amino acid	OH	Br	NH-ethyl
	acyl	amino acid	OH	Br	NH-acetyl
	acyl	amino acid	OH	Br	OH
	acyl	amino acid	OH	Br	OMe
	acyl	amino acid	OH	Br	OEt
55	acyl	amino acid	OH	Br	O-cyclopropyl
	acyl	amino acid	OH	Br	O-acetyl
	acyl	amino acid	OH	Br	SH
	acyl	amino acid	OH	Br	SMe
	acyl	amino acid	OH	Br	SEt
	acyl	amino acid	OH	Br	S-cyclopropyl
60	acyl	amino acid	OH	Br	F
	acyl	amino acid	OH	Br	Cl
	acyl	amino acid	OH	Br	Br
	acyl	amino acid	OH	Br	I
	H	acyl	OH	Br	H
	H	acyl	OH	Br	NH ₂
65	H	acyl	OH	Br	NH-cyclopropyl
	H	acyl	OH	Br	NH-methyl
	H	acyl	OH	Br	NH-ethyl
	H	acyl	OH	Br	NH-acetyl
	H	acyl	OH	Br	OH

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
H	acyl	OH	Br	OMe
H	acyl	OH	Br	OEt
H	acyl	OH	Br	O-cyclopropyl
H	acyl	OH	Br	O-acetyl
H	acyl	OH	Br	SH
H	acyl	OH	Br	SMe
H	acyl	OH	Br	SEt
H	acyl	OH	Br	S-cyclopropyl
H	acyl	OH	Br	F
H	acyl	OH	Br	Cl
H	acyl	OH	Br	Br
H	acyl	OH	Br	I
H	amino acid	OH	Br	H
H	amino acid	OH	Br	NH ₂
H	amino acid	OH	Br	NH-cyclopropyl
H	amino acid	OH	Br	NH-methyl
H	amino acid	OH	Br	NH-ethyl
H	amino acid	OH	Br	NH-acetyl
H	amino acid	OH	Br	OH
H	amino acid	OH	Br	OMe
H	amino acid	OH	Br	OEt
H	amino acid	OH	Br	O-cyclopropyl
H	amino acid	OH	Br	O-acetyl
H	amino acid	OH	Br	SH
H	amino acid	OH	Br	SMe
H	amino acid	OH	Br	SEt
H	amino acid	OH	Br	S-cyclopropyl
H	amino acid	OH	Br	F
H	amino acid	OH	Br	Cl
H	amino acid	OH	Br	Br
H	amino acid	OH	Br	I
amino acid	amino acid	OH	Br	H
amino acid	amino acid	OH	Br	NH ₂
amino acid	amino acid	OH	Br	NH-cyclopropyl
amino acid	amino acid	OH	Br	NH-methyl
amino acid	amino acid	OH	Br	NH-ethyl
amino acid	amino acid	OH	Br	NH-acetyl
amino acid	amino acid	OH	Br	OH
amino acid	amino acid	OH	Br	OMe
amino acid	amino acid	OH	Br	OEt
amino acid	amino acid	OH	Br	O-cyclopropyl
amino acid	amino acid	OH	Br	O-acetyl
amino acid	amino acid	OH	Br	SH
amino acid	amino acid	OH	Br	SMe
amino acid	amino acid	OH	Br	SEt
amino acid	amino acid	OH	Br	S-cyclopropyl
amino acid	amino acid	OH	Br	F
amino acid	amino acid	OH	Br	Cl
amino acid	amino acid	OH	Br	Br
amino acid	amino acid	OH	Br	I
amino acid	H	OH	Br	H
amino acid	H	OH	Br	NH ₂
amino acid	H	OH	Br	NH-cyclopropyl
amino acid	H	OH	Br	NH-methyl
amino acid	H	OH	Br	NH-ethyl
amino acid	H	OH	Br	NH-acetyl
amino acid	H	OH	Br	OH
amino acid	H	OH	Br	OMe
amino acid	H	OH	Br	OEt
amino acid	H	OH	Br	O-cyclopropyl
amino acid	H	OH	Br	O-acetyl
amino acid	H	OH	Br	SH
amino acid	H	OH	Br	SMe
amino acid	H	OH	Br	SEt
amino acid	H	OH	Br	S-cyclopropyl
amino acid	H	OH	Br	F
amino acid	H	OH	Br	Cl
amino acid	H	OH	Br	Br
amino acid	H	OH	Br	I
amino acid	acyl	OH	Br	H
amino acid	acyl	OH	Br	NH ₂
amino acid	acyl	OH	Br	NH-cyclopropyl
amino acid	acyl	OH	Br	NH-methyl
amino acid	acyl	OH	Br	NH-ethyl
amino acid	acyl	OH	Br	NH-acetyl
amino acid	acyl	OH	Br	OH
amino acid	acyl	OH	Br	OMe

TABLE 1-continued

	R ²	R ³	X ¹	X ²	Y
5	amino acid	acyl	OH	Br	OEt
	amino acid	acyl	OH	Br	O-cyclopropyl
	amino acid	acyl	OH	Br	O-acetyl
	amino acid	acyl	OH	Br	SH
	amino acid	acyl	OH	Br	SMe
	amino acid	acyl	OH	Br	SEt
10	amino acid	acyl	OH	Br	S-cyclopropyl
	amino acid	acyl	OH	Br	F
	amino acid	acyl	OH	Br	Cl
	amino acid	acyl	OH	Br	Br
	amino acid	acyl	OH	Br	I
	acyl	H	CH ₃	Cl	H
15	acyl	H	CH ₃	Cl	NH ₂
	acyl	H	CH ₃	Cl	NH-cyclopropyl
	acyl	H	CH ₃	Cl	NH-methyl
	acyl	H	CH ₃	Cl	NH-ethyl
	acyl	H	CH ₃	Cl	NH-acetyl
	acyl	H	CH ₃	Cl	OH
20	acyl	H	CH ₃	Cl	OMe
	acyl	H	CH ₃	Cl	OEt
	acyl	H	CH ₃	Cl	O-cyclopropyl
	acyl	H	CH ₃	Cl	O-acetyl
	acyl	H	CH ₃	Cl	SH
	acyl	H	CH ₃	Cl	SMe
	acyl	H	CH ₃	Cl	SEt
25	acyl	H	CH ₃	Cl	S-cyclopropyl
	acyl	H	CH ₃	Cl	F
	acyl	H	CH ₃	Cl	Cl
	acyl	H	CH ₃	Cl	Br
	acyl	H	CH ₃	Cl	I
	acyl	acyl	CH ₃	Cl	H
30	acyl	acyl	CH ₃	Cl	NH ₂
	acyl	acyl	CH ₃	Cl	NH-cyclopropyl
	acyl	acyl	CH ₃	Cl	NH-methyl
	acyl	acyl	CH ₃	Cl	NH-ethyl
	acyl	acyl	CH ₃	Cl	NH-acetyl
	acyl	acyl	CH ₃	Cl	OH
35	acyl	acyl	CH ₃	Cl	OMe
	acyl	acyl	CH ₃	Cl	OEt
	acyl	acyl	CH ₃	Cl	O-cyclopropyl
	acyl	acyl	CH ₃	Cl	O-acetyl
	acyl	acyl	CH ₃	Cl	SH
	acyl	acyl	CH ₃	Cl	SMe
40	acyl	acyl	CH ₃	Cl	SEt
	acyl	acyl	CH ₃	Cl	S-cyclopropyl
	acyl	acyl	CH ₃	Cl	F
	acyl	acyl	CH ₃	Cl	Cl
	acyl	acyl	CH ₃	Cl	Br
	acyl	acyl	CH ₃	Cl	I
	acyl	amino acid	CH ₃	Cl	H
45	acyl	amino acid	CH ₃	Cl	NH ₂
	acyl	amino acid	CH ₃	Cl	NH-cyclopropyl
	acyl	amino acid	CH ₃	Cl	NH-methyl
	acyl	amino acid	CH ₃	Cl	NH-ethyl
	acyl	amino acid	CH ₃	Cl	NH-acetyl
	acyl	amino acid	CH ₃	Cl	OH
50	acyl	amino acid	CH ₃	Cl	OMe
	acyl	amino acid	CH ₃	Cl	OEt
	acyl	amino acid	CH ₃	Cl	O-cyclopropyl
	acyl	amino acid	CH ₃	Cl	O-acetyl
	acyl	amino acid	CH ₃	Cl	SH
	acyl	amino acid	CH ₃	Cl	SMe
55	acyl	amino acid	CH ₃	Cl	SEt
	acyl	amino acid	CH ₃	Cl	S-cyclopropyl
	acyl	amino acid	CH ₃	Cl	F
	acyl	amino acid	CH ₃	Cl	Cl
	acyl	amino acid	CH ₃	Cl	Br
	acyl	amino acid	CH ₃	Cl	I
	H	acyl	CH ₃	Cl	H
60	H	acyl	CH ₃	Cl	NH ₂
	H	acyl	CH ₃	Cl	NH-cyclopropyl
	H	acyl	CH ₃	Cl	NH-methyl
	H	acyl	CH ₃	Cl	NH-ethyl
	H	acyl	CH ₃	Cl	NH-acetyl
	H	acyl	CH ₃	Cl	OH
65	H	acyl	CH ₃	Cl	OMe
	H	acyl	CH ₃	Cl	OEt

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
H	acyl	CH ₃	Cl	O-cyclopropyl
H	acyl	CH ₃	Cl	O-acetyl
H	acyl	CH ₃	Cl	SH
H	acyl	CH ₃	Cl	SMe
H	acyl	CH ₃	Cl	SEt
H	acyl	CH ₃	Cl	S-cyclopropyl
H	acyl	CH ₃	Cl	F
H	acyl	CH ₃	Cl	Cl
H	acyl	CH ₃	Cl	Br
H	acyl	CH ₃	Cl	I
H	amino acid	CH ₃	Cl	H
H	amino acid	CH ₃	Cl	NH ₂
H	amino acid	CH ₃	Cl	NH-cyclopropyl
H	amino acid	CH ₃	Cl	NH-methyl
H	amino acid	CH ₃	Cl	NH-ethyl
H	amino acid	CH ₃	Cl	NH-acetyl
H	amino acid	CH ₃	Cl	OH
H	amino acid	CH ₃	Cl	OMe
H	amino acid	CH ₃	Cl	OEt
H	amino acid	CH ₃	Cl	O-cyclopropyl
H	amino acid	CH ₃	Cl	O-acetyl
H	amino acid	CH ₃	Cl	SH
H	amino acid	CH ₃	Cl	SMe
H	amino acid	CH ₃	Cl	SEt
H	amino acid	CH ₃	Cl	S-cyclopropyl
H	amino acid	CH ₃	Cl	F
H	amino acid	CH ₃	Cl	Cl
H	amino acid	CH ₃	Cl	Br
H	amino acid	CH ₃	Cl	I
amino acid	amino acid	CH ₃	Cl	H
amino acid	amino acid	CH ₃	Cl	NH ₂
amino acid	amino acid	CH ₃	Cl	NH-cyclopropyl
amino acid	amino acid	CH ₃	Cl	NH-methyl
amino acid	amino acid	CH ₃	Cl	NH-ethyl
amino acid	amino acid	CH ₃	Cl	NH-acetyl
amino acid	amino acid	CH ₃	Cl	OH
amino acid	amino acid	CH ₃	Cl	OMe
amino acid	amino acid	CH ₃	Cl	OEt
amino acid	amino acid	CH ₃	Cl	O-cyclopropyl
amino acid	amino acid	CH ₃	Cl	O-acetyl
amino acid	amino acid	CH ₃	Cl	SH
amino acid	amino acid	CH ₃	Cl	SMe
amino acid	amino acid	CH ₃	Cl	SEt
amino acid	amino acid	CH ₃	Cl	S-cyclopropyl
amino acid	amino acid	CH ₃	Cl	F
amino acid	amino acid	CH ₃	Cl	Cl
amino acid	amino acid	CH ₃	Cl	Br
amino acid	amino acid	CH ₃	Cl	I
amino acid	H	CH ₃	Cl	H
amino acid	H	CH ₃	Cl	NH ₂
amino acid	H	CH ₃	Cl	NH-cyclopropyl
amino acid	H	CH ₃	Cl	NH-methyl
amino acid	H	CH ₃	Cl	NH-ethyl
amino acid	H	CH ₃	Cl	NH-acetyl
amino acid	H	CH ₃	Cl	OH
amino acid	H	CH ₃	Cl	OMe
amino acid	H	CH ₃	Cl	OEt
amino acid	H	CH ₃	Cl	O-cyclopropyl
amino acid	H	CH ₃	Cl	O-acetyl
amino acid	H	CH ₃	Cl	SH
amino acid	H	CH ₃	Cl	SMe
amino acid	H	CH ₃	Cl	SEt
amino acid	H	CH ₃	Cl	S-cyclopropyl
amino acid	H	CH ₃	Cl	F
amino acid	H	CH ₃	Cl	Cl
amino acid	H	CH ₃	Cl	Br
amino acid	H	CH ₃	Cl	I
amino acid	acyl	CH ₃	Cl	H
amino acid	acyl	CH ₃	Cl	NH ₂
amino acid	acyl	CH ₃	Cl	NH-cyclopropyl
amino acid	acyl	CH ₃	Cl	NH-methyl
amino acid	acyl	CH ₃	Cl	NH-ethyl
amino acid	acyl	CH ₃	Cl	NH-acetyl
amino acid	acyl	CH ₃	Cl	OH
amino acid	acyl	CH ₃	Cl	OMe
amino acid	acyl	CH ₃	Cl	OEt
amino acid	acyl	CH ₃	Cl	O-cyclopropyl
amino acid	acyl	CH ₃	Cl	O-acetyl
amino acid	acyl	CH ₃	Cl	SH
amino acid	acyl	CH ₃	Cl	SMe
amino acid	acyl	CH ₃	Cl	SEt
amino acid	acyl	CH ₃	Cl	S-cyclopropyl
amino acid	acyl	CH ₃	Cl	F
amino acid	acyl	CH ₃	Cl	Cl
amino acid	acyl	CH ₃	Cl	Br
amino acid	acyl	CH ₃	Cl	I

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
5	amino acid	acyl	CH ₃	O-acetyl
	amino acid	acyl	CH ₃	SH
	amino acid	acyl	CH ₃	SMe
	amino acid	acyl	CH ₃	SEt
	amino acid	acyl	CH ₃	S-cyclopropyl
	amino acid	acyl	CH ₃	F
10	amino acid	acyl	CH ₃	Cl
	amino acid	acyl	CH ₃	Br
	amino acid	acyl	CH ₃	I
	acyl	H	CF ₃	H
	acyl	H	CF ₃	NH ₂
	acyl	H	CF ₃	NH-cyclopropyl
15	acyl	H	CF ₃	NH-methyl
	acyl	H	CF ₃	NH-ethyl
	acyl	H	CF ₃	NH-acetyl
	acyl	H	CF ₃	OH
	acyl	H	CF ₃	OMe
	acyl	H	CF ₃	OEt
	acyl	H	CF ₃	O-cyclopropyl
20	acyl	H	CF ₃	O-acetyl
	acyl	H	CF ₃	SH
	acyl	H	CF ₃	SMe
	acyl	H	CF ₃	SEt
	acyl	H	CF ₃	S-cyclopropyl
	acyl	H	CF ₃	F
25	acyl	H	CF ₃	Cl
	acyl	H	CF ₃	Br
	acyl	H	CF ₃	I
	acyl	acyl	CF ₃	H
	acyl	acyl	CF ₃	NH ₂
	acyl	acyl	CF ₃	NH-cyclopropyl
30	acyl	acyl	CF ₃	NH-methyl
	acyl	acyl	CF ₃	NH-ethyl
	acyl	acyl	CF ₃	NH-acetyl
	acyl	acyl	CF ₃	OH
	acyl	acyl	CF ₃	OMe
	acyl	acyl	CF ₃	OEt
35	acyl	acyl	CF ₃	O-cyclopropyl
	acyl	acyl	CF ₃	O-acetyl
	acyl	acyl	CF ₃	SH
	acyl	acyl	CF ₃	SMe
	acyl	acyl	CF ₃	SEt
	acyl	acyl	CF ₃	S-cyclopropyl
	acyl	acyl	CF ₃	F
40	acyl	acyl	CF ₃	Cl
	acyl	acyl	CF ₃	Br
	acyl	acyl	CF ₃	I
	acyl	amino acid	CF ₃	H
	acyl	amino acid	CF ₃	NH ₂
	acyl	amino acid	CF ₃	NH-cyclopropyl
45	acyl	amino acid	CF ₃	NH-methyl
	acyl	amino acid	CF ₃	NH-ethyl
	acyl	amino acid	CF ₃	NH-acetyl
	acyl	amino acid	CF ₃	OH
	acyl	amino acid	CF ₃	OMe
	acyl	amino acid	CF ₃	OEt
	acyl	amino acid	CF ₃	O-cyclopropyl
	acyl	amino acid	CF ₃	O-acetyl
	acyl	amino acid	CF ₃	SH
	acyl	amino acid	CF ₃	SMe
	acyl	amino acid	CF ₃	SEt
	acyl	amino acid	CF ₃	S-cyclopropyl
	acyl	amino acid	CF ₃	F
55	acyl	amino acid	CF ₃	Cl
	acyl	amino acid	CF ₃	Br
	acyl	amino acid	CF ₃	I
	acyl	H	CF ₃	H
	H	acyl	CF ₃	NH ₂
	H	acyl	CF ₃	NH-cyclopropyl
60	H	acyl	CF ₃	NH-methyl
	H	acyl	CF ₃	NH-ethyl
	H	acyl	CF ₃	NH-acetyl
	H	acyl	CF ₃	OH
	H	acyl	CF ₃	OMe
	H	acyl	CF ₃	OEt
	H	acyl	CF ₃	O-cyclopropyl
65	H	acyl	CF ₃	O-acetyl
	H	acyl	CF ₃	

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
H	acyl	CF ₃	Cl	SH
H	acyl	CF ₃	Cl	SMe
H	acyl	CF ₃	Cl	SEt
H	acyl	CF ₃	Cl	S-cyclopropyl
H	acyl	CF ₃	Cl	F
H	acyl	CF ₃	Cl	Cl
H	acyl	CF ₃	Cl	Br
H	acyl	CF ₃	Cl	I
H	amino acid	CF ₃	Cl	H
H	amino acid	CF ₃	Cl	NH ₂
H	amino acid	CF ₃	Cl	NH-cyclopropyl
H	amino acid	CF ₃	Cl	NH-methyl
H	amino acid	CF ₃	Cl	NH-ethyl
H	amino acid	CF ₃	Cl	NH-acetyl
H	amino acid	CF ₃	Cl	OH
H	amino acid	CF ₃	Cl	OMe
H	amino acid	CF ₃	Cl	OEt
H	amino acid	CF ₃	Cl	O-cyclopropyl
H	amino acid	CF ₃	Cl	O-acetyl
H	amino acid	CF ₃	Cl	SH
H	amino acid	CF ₃	Cl	SMe
H	amino acid	CF ₃	Cl	SEt
H	amino acid	CF ₃	Cl	S-cyclopropyl
H	amino acid	CF ₃	Cl	F
H	amino acid	CF ₃	Cl	Cl
H	amino acid	CF ₃	Cl	Br
H	amino acid	CF ₃	Cl	I
amino acid	amino acid	CF ₃	Cl	H
amino acid	amino acid	CF ₃	Cl	NH ₂
amino acid	amino acid	CF ₃	Cl	NH-cyclopropyl
amino acid	amino acid	CF ₃	Cl	NH-methyl
amino acid	amino acid	CF ₃	Cl	NH-ethyl
amino acid	amino acid	CF ₃	Cl	NH-acetyl
amino acid	amino acid	CF ₃	Cl	OH
amino acid	amino acid	CF ₃	Cl	OMe
amino acid	amino acid	CF ₃	Cl	OEt
amino acid	amino acid	CF ₃	Cl	O-cyclopropyl
amino acid	amino acid	CF ₃	Cl	O-acetyl
amino acid	amino acid	CF ₃	Cl	SH
amino acid	amino acid	CF ₃	Cl	SMe
amino acid	amino acid	CF ₃	Cl	SEt
amino acid	amino acid	CF ₃	Cl	S-cyclopropyl
amino acid	amino acid	CF ₃	Cl	F
amino acid	amino acid	CF ₃	Cl	Cl
amino acid	amino acid	CF ₃	Cl	Br
amino acid	amino acid	CF ₃	Cl	I
amino acid	H	CF ₃	Cl	H
amino acid	H	CF ₃	Cl	NH ₂
amino acid	H	CF ₃	Cl	NH-cyclopropyl
amino acid	H	CF ₃	Cl	NH-methyl
amino acid	H	CF ₃	Cl	NH-ethyl
amino acid	H	CF ₃	Cl	NH-acetyl
amino acid	H	CF ₃	Cl	OH
amino acid	H	CF ₃	Cl	OMe
amino acid	H	CF ₃	Cl	OEt
amino acid	H	CF ₃	Cl	O-cyclopropyl
amino acid	H	CF ₃	Cl	O-acetyl
amino acid	H	CF ₃	Cl	SH
amino acid	H	CF ₃	Cl	SMe
amino acid	H	CF ₃	Cl	SEt
amino acid	H	CF ₃	Cl	S-cyclopropyl
amino acid	H	CF ₃	Cl	F
amino acid	H	CF ₃	Cl	Cl
amino acid	H	CF ₃	Cl	Br
amino acid	H	CF ₃	Cl	I
amino acid	acyl	CF ₃	Cl	H
amino acid	acyl	CF ₃	Cl	NH ₂
amino acid	acyl	CF ₃	Cl	NH-cyclopropyl
amino acid	acyl	CF ₃	Cl	NH-methyl
amino acid	acyl	CF ₃	Cl	NH-ethyl
amino acid	acyl	CF ₃	Cl	NH-acetyl
amino acid	acyl	CF ₃	Cl	OH
amino acid	acyl	CF ₃	Cl	OMe
amino acid	acyl	CF ₃	Cl	OEt
amino acid	acyl	CF ₃	Cl	O-cyclopropyl
amino acid	acyl	CF ₃	Cl	O-acetyl
amino acid	acyl	CF ₃	Cl	SH
amino acid	acyl	CF ₃	Cl	SMe
amino acid	acyl	CF ₃	Cl	SEt
amino acid	acyl	CF ₃	Cl	S-cyclopropyl
amino acid	acyl	CF ₃	Cl	F
amino acid	acyl	CF ₃	Cl	Cl
amino acid	acyl	CF ₃	Cl	Br
amino acid	acyl	CF ₃	Cl	I

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y	
5	amino acid	acyl	CF ₃	Cl	SMe
	amino acid	acyl	CF ₃	Cl	SEt
	amino acid	acyl	CF ₃	Cl	S-cyclopropyl
	amino acid	acyl	CF ₃	Cl	F
	amino acid	acyl	CF ₃	Cl	Cl
	amino acid	acyl	CF ₃	Cl	Br
10	amino acid	acyl	CF ₃	Cl	I
	acyl	H	Br	Cl	H
	acyl	H	Br	Cl	NH ₂
	acyl	H	Br	Cl	NH-cyclopropyl
	acyl	H	Br	Cl	NH-methyl
	acyl	H	Br	Cl	NH-ethyl
15	acyl	H	Br	Cl	NH-acetyl
	acyl	H	Br	Cl	OH
	acyl	H	Br	Cl	OMe
	acyl	H	Br	Cl	OEt
	acyl	H	Br	Cl	O-cyclopropyl
	acyl	H	Br	Cl	O-acetyl
20	acyl	H	Br	Cl	SH
	acyl	H	Br	Cl	SMe
	acyl	H	Br	Cl	SEt
	acyl	H	Br	Cl	S-cyclopropyl
	acyl	H	Br	Cl	F
	acyl	H	Br	Cl	Cl
25	acyl	H	Br	Cl	Br
	acyl	H	Br	Cl	I
	acyl	acyl	Br	Cl	H
	acyl	acyl	Br	Cl	NH ₂
	acyl	acyl	Br	Cl	NH-cyclopropyl
	acyl	acyl	Br	Cl	NH-methyl
30	acyl	acyl	Br	Cl	NH-ethyl
	acyl	acyl	Br	Cl	NH-acetyl
	acyl	acyl	Br	Cl	OH
	acyl	acyl	Br	Cl	OMe
	acyl	acyl	Br	Cl	OEt
	acyl	acyl	Br	Cl	O-cyclopropyl
35	acyl	acyl	Br	Cl	O-acetyl
	acyl	acyl	Br	Cl	SH
	acyl	acyl	Br	Cl	SMe
	acyl	acyl	Br	Cl	SEt
	acyl	acyl	Br	Cl	S-cyclopropyl
	acyl	acyl	Br	Cl	F
40	acyl	acyl	Br	Cl	Cl
	acyl	acyl	Br	Cl	Br
	acyl	acyl	Br	Cl	I
	acyl	amino acid	Br	Cl	H
	acyl	amino acid	Br	Cl	NH ₂
	acyl	amino acid	Br	Cl	NH-cyclopropyl
45	acyl	amino acid	Br	Cl	NH-methyl
	acyl	amino acid	Br	Cl	NH-ethyl
	acyl	amino acid	Br	Cl	NH-acetyl
	acyl	amino acid	Br	Cl	OH
	acyl	amino acid	Br	Cl	OMe
	acyl	amino acid	Br	Cl	OEt
50	acyl	amino acid	Br	Cl	O-cyclopropyl
	acyl	amino acid	Br	Cl	O-acetyl
	acyl	amino acid	Br	Cl	SH
	acyl	amino acid	Br	Cl	SMe
	acyl	amino acid	Br	Cl	SEt
	acyl	amino acid	Br	Cl	S-cyclopropyl
55	acyl	amino acid	Br	Cl	F
	acyl	amino acid	Br	Cl	Cl
	acyl	amino acid	Br	Cl	Br
	acyl	amino acid	Br	Cl	I
	H	acyl	Br	Cl	H
	H	acyl	Br	Cl	NH ₂
60	H	acyl	Br	Cl	NH-cyclopropyl
	H	acyl	Br	Cl	NH-methyl
	H	acyl	Br	Cl	NH-ethyl
	H	acyl	Br	Cl	NH-acetyl
	H	acyl	Br	Cl	OH
	H	acyl	Br	Cl	OMe
65	H	acyl	Br	Cl	OEt
	H	acyl	Br	Cl	O-cyclopropyl
	H	acyl	Br	Cl	O-acetyl
	H	acyl	Br	Cl	SH
	H	acyl	Br	Cl	SMe

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
H	acyl	Br	Cl	SEt
H	acyl	Br	Cl	S-cyclopropyl
H	acyl	Br	Cl	F
H	acyl	Br	Cl	Cl
H	acyl	Br	Cl	Br
H	acyl	Br	Cl	I
H	amino acid	Br	Cl	H
H	amino acid	Br	Cl	NH ₂
H	amino acid	Br	Cl	NH-cyclopropyl
H	amino acid	Br	Cl	NH-methyl
H	amino acid	Br	Cl	NH-ethyl
H	amino acid	Br	Cl	NH-acetyl
H	amino acid	Br	Cl	OH
H	amino acid	Br	Cl	OMe
H	amino acid	Br	Cl	OEt
H	amino acid	Br	Cl	O-cyclopropyl
H	amino acid	Br	Cl	O-acetyl
H	amino acid	Br	Cl	SH
H	amino acid	Br	Cl	SMe
H	amino acid	Br	Cl	SEt
H	amino acid	Br	Cl	S-cyclopropyl
H	amino acid	Br	Cl	F
H	amino acid	Br	Cl	Cl
H	amino acid	Br	Cl	Br
H	amino acid	Br	Cl	I
H	amino acid	Br	Cl	H
amino acid	amino acid	Br	Cl	NH ₂
amino acid	amino acid	Br	Cl	NH-cyclopropyl
amino acid	amino acid	Br	Cl	NH-methyl
amino acid	amino acid	Br	Cl	NH-ethyl
amino acid	amino acid	Br	Cl	NH-acetyl
amino acid	amino acid	Br	Cl	OH
amino acid	amino acid	Br	Cl	OMe
amino acid	amino acid	Br	Cl	OEt
amino acid	amino acid	Br	Cl	O-cyclopropyl
amino acid	amino acid	Br	Cl	O-acetyl
amino acid	amino acid	Br	Cl	SH
amino acid	amino acid	Br	Cl	SMe
amino acid	amino acid	Br	Cl	SEt
amino acid	amino acid	Br	Cl	S-cyclopropyl
amino acid	amino acid	Br	Cl	F
amino acid	amino acid	Br	Cl	Cl
amino acid	amino acid	Br	Cl	Br
amino acid	amino acid	Br	Cl	I
amino acid	amino acid	Br	Cl	H
amino acid	H	Br	Cl	NH ₂
amino acid	H	Br	Cl	NH-cyclopropyl
amino acid	H	Br	Cl	NH-methyl
amino acid	H	Br	Cl	NH-ethyl
amino acid	H	Br	Cl	NH-acetyl
amino acid	H	Br	Cl	OH
amino acid	H	Br	Cl	OMe
amino acid	H	Br	Cl	OEt
amino acid	H	Br	Cl	O-cyclopropyl
amino acid	H	Br	Cl	O-acetyl
amino acid	H	Br	Cl	SH
amino acid	H	Br	Cl	SMe
amino acid	H	Br	Cl	SEt
amino acid	H	Br	Cl	S-cyclopropyl
amino acid	H	Br	Cl	F
amino acid	H	Br	Cl	Cl
amino acid	H	Br	Cl	Br
amino acid	H	Br	Cl	I
amino acid	H	Br	Cl	H
amino acid	acyl	Br	Cl	NH ₂
amino acid	acyl	Br	Cl	NH-cyclopropyl
amino acid	acyl	Br	Cl	NH-methyl
amino acid	acyl	Br	Cl	NH-ethyl
amino acid	acyl	Br	Cl	NH-acetyl
amino acid	acyl	Br	Cl	OH
amino acid	acyl	Br	Cl	OMe
amino acid	acyl	Br	Cl	OEt
amino acid	acyl	Br	Cl	O-cyclopropyl
amino acid	acyl	Br	Cl	O-acetyl
amino acid	acyl	Br	Cl	SH
amino acid	acyl	Br	Cl	SMe
amino acid	acyl	Br	Cl	SEt
amino acid	acyl	Br	Cl	S-cyclopropyl
amino acid	acyl	Br	Cl	F
amino acid	acyl	Br	Cl	Cl
amino acid	acyl	Br	Cl	Br
amino acid	acyl	Br	Cl	I
amino acid	acyl	Br	Cl	H

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y	
5	amino acid	acyl	Br	Cl	S-cyclopropyl
	amino acid	acyl	Br	Cl	F
	amino acid	acyl	Br	Cl	Cl
	amino acid	acyl	Br	Cl	Br
	amino acid	acyl	Br	Cl	I
10	acyl	H	Cl	Cl	H
	acyl	H	Cl	Cl	NH ₂
	acyl	H	Cl	Cl	NH-cyclopropyl
	acyl	H	Cl	Cl	NH-methyl
	acyl	H	Cl	Cl	NH-ethyl
15	acyl	H	Cl	Cl	NH-acetyl
	acyl	H	Cl	Cl	OH
	acyl	H	Cl	Cl	OMe
	acyl	H	Cl	Cl	OEt
	acyl	H	Cl	Cl	O-cyclopropyl
20	acyl	H	Cl	Cl	O-acetyl
	acyl	H	Cl	Cl	SH
	acyl	H	Cl	Cl	SMe
	acyl	H	Cl	Cl	SEt
	acyl	H	Cl	Cl	S-cyclopropyl
25	acyl	H	Cl	Cl	F
	acyl	H	Cl	Cl	Cl
	acyl	H	Cl	Cl	Br
	acyl	H	Cl	Cl	I
	acyl	acyl	Cl	Cl	H
30	acyl	acyl	Cl	Cl	NH ₂
	acyl	acyl	Cl	Cl	NH-cyclopropyl
	acyl	acyl	Cl	Cl	NH-methyl
	acyl	acyl	Cl	Cl	NH-ethyl
	acyl	acyl	Cl	Cl	NH-acetyl
35	acyl	acyl	Cl	Cl	OH
	acyl	acyl	Cl	Cl	OMe
	acyl	acyl	Cl	Cl	OEt
	acyl	acyl	Cl	Cl	O-cyclopropyl
	acyl	acyl	Cl	Cl	O-acetyl
40	acyl	acyl	Cl	Cl	SH
	acyl	acyl	Cl	Cl	SMe
	acyl	acyl	Cl	Cl	SEt
	acyl	acyl	Cl	Cl	S-cyclopropyl
	acyl	acyl	Cl	Cl	F
45	acyl	acyl	Cl	Cl	Cl
	acyl	acyl	Cl	Cl	Br
	acyl	acyl	Cl	Cl	I
	acyl	amino acid	Cl	Cl	H
	acyl	amino acid	Cl	Cl	NH ₂
50	acyl	amino acid	Cl	Cl	NH-cyclopropyl
	acyl	amino acid	Cl	Cl	NH-methyl
	acyl	amino acid	Cl	Cl	NH-ethyl
	acyl	amino acid	Cl	Cl	NH-acetyl
	acyl	amino acid	Cl	Cl	OH
55	acyl	amino acid	Cl	Cl	OMe
	acyl	amino acid	Cl	Cl	OEt
	acyl	amino acid	Cl	Cl	O-cyclopropyl
	acyl	amino acid	Cl	Cl	O-acetyl
	acyl	amino acid	Cl	Cl	SH
60	acyl	amino acid	Cl	Cl	SMe
	acyl	amino acid	Cl	Cl	SEt
	acyl	amino acid	Cl	Cl	S-cyclopropyl
	acyl	amino acid	Cl	Cl	F
	acyl	amino acid	Cl	Cl	Cl
65	acyl	amino acid	Cl	Cl	Br
	acyl	amino acid	Cl	Cl	I
	H	acyl	Cl	Cl	H
	H	acyl	Cl	Cl	NH ₂
	H	acyl	Cl	Cl	NH-cyclopropyl
65	H	acyl	Cl	Cl	NH-methyl
	H	acyl	Cl	Cl	NH-ethyl
	H	acyl	Cl	Cl	NH-acetyl
	H	acyl	Cl	Cl	OH
	H	acyl	Cl	Cl	OMe
65	H	acyl	Cl	Cl	OEt
	H	acyl	Cl	Cl	O-cyclopropyl
	H	acyl	Cl	Cl	O-acetyl
	H	acyl	Cl	Cl	SH
	H	acyl	Cl	Cl	SMe
65	H	acyl	Cl	Cl	SEt
	H	acyl	Cl	Cl	S-cyclopropyl

TABLE 1-continued

	R ²	R ³	X ¹	X ²	Y
5	amino acid	acyl	Cl	Cl	Cl
	amino acid	acyl	Cl	Cl	Br
	amino acid	acyl	Cl	Cl	I
	acyl	H	F	Cl	H
	acyl	H	F	Cl	NH ₂
	acyl	H	F	Cl	NH-cyclopropyl
10	acyl	H	F	Cl	NH-methyl
	acyl	H	F	Cl	NH-ethyl
	acyl	H	F	Cl	NH-acetyl
	acyl	H	F	Cl	OH
	acyl	H	F	Cl	OMe
	acyl	H	F	Cl	OEt
15	acyl	H	F	Cl	O-cyclopropyl
	acyl	H	F	Cl	O-acetyl
	acyl	H	F	Cl	SH
	acyl	H	F	Cl	SMe
	acyl	H	F	Cl	SEt
	acyl	H	F	Cl	S-cyclopropyl
20	acyl	H	F	Cl	F
	acyl	H	F	Cl	Cl
	acyl	H	F	Cl	Br
	acyl	H	F	Cl	I
	acyl	acyl	F	Cl	H
	acyl	acyl	F	Cl	NH ₂
25	acyl	acyl	F	Cl	NH-cyclopropyl
	acyl	acyl	F	Cl	NH-methyl
	acyl	acyl	F	Cl	NH-ethyl
	acyl	acyl	F	Cl	NH-acetyl
	acyl	acyl	F	Cl	OH
	acyl	acyl	F	Cl	OMe
	acyl	acyl	F	Cl	OEt
30	acyl	acyl	F	Cl	O-cyclopropyl
	acyl	acyl	F	Cl	O-acetyl
	acyl	acyl	F	Cl	SH
	acyl	acyl	F	Cl	SMe
	acyl	acyl	F	Cl	SEt
	acyl	acyl	F	Cl	S-cyclopropyl
35	acyl	acyl	F	Cl	F
	acyl	acyl	F	Cl	Cl
	acyl	acyl	F	Cl	Br
	acyl	acyl	F	Cl	I
	acyl	amino acid	F	Cl	H
	acyl	amino acid	F	Cl	NH ₂
40	acyl	amino acid	F	Cl	NH-cyclopropyl
	acyl	amino acid	F	Cl	NH-methyl
	acyl	amino acid	F	Cl	NH-ethyl
	acyl	amino acid	F	Cl	NH-acetyl
	acyl	amino acid	F	Cl	OH
	acyl	amino acid	F	Cl	OMe
	acyl	amino acid	F	Cl	OEt
45	acyl	amino acid	F	Cl	O-cyclopropyl
	acyl	amino acid	F	Cl	O-acetyl
	acyl	amino acid	F	Cl	SH
	acyl	amino acid	F	Cl	SMe
	acyl	amino acid	F	Cl	SEt
	acyl	amino acid	F	Cl	S-cyclopropyl
50	acyl	amino acid	F	Cl	F
	acyl	amino acid	F	Cl	Cl
	acyl	amino acid	F	Cl	Br
	acyl	amino acid	F	Cl	I
	H	acyl	F	Cl	H
	H	acyl	F	Cl	NH ₂
55	H	acyl	F	Cl	NH-cyclopropyl
	H	acyl	F	Cl	NH-methyl
	H	acyl	F	Cl	NH-ethyl
	H	acyl	F	Cl	NH-acetyl
	H	acyl	F	Cl	OH
	H	acyl	F	Cl	OMe
	H	acyl	F	Cl	OEt
60	H	acyl	F	Cl	O-cyclopropyl
	H	acyl	F	Cl	O-acetyl
	H	acyl	F	Cl	SH
	H	acyl	F	Cl	SMe
	H	acyl	F	Cl	SEt
	H	acyl	F	Cl	S-cyclopropyl
65	H	acyl	F	Cl	F
	H	acyl	F	Cl	Cl

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
H	acyl	F	Cl	Br
H	acyl	F	Cl	I
H	amino acid	F	Cl	H
H	amino acid	F	Cl	NH ₂
H	amino acid	F	Cl	NH-cyclopropyl
H	amino acid	F	Cl	NH-methyl
H	amino acid	F	Cl	NH-ethyl
H	amino acid	F	Cl	NH-acetyl
H	amino acid	F	Cl	OH
H	amino acid	F	Cl	OMe
H	amino acid	F	Cl	OEt
H	amino acid	F	Cl	O-cyclopropyl
H	amino acid	F	Cl	O-acetyl
H	amino acid	F	Cl	SH
H	amino acid	F	Cl	SMe
H	amino acid	F	Cl	SEt
H	amino acid	F	Cl	S-cyclopropyl
H	amino acid	F	Cl	F
H	amino acid	F	Cl	Cl
H	amino acid	F	Cl	Br
H	amino acid	F	Cl	I
amino acid	amino acid	F	Cl	H
amino acid	amino acid	F	Cl	NH ₂
amino acid	amino acid	F	Cl	NH-cyclopropyl
amino acid	amino acid	F	Cl	NH-methyl
amino acid	amino acid	F	Cl	NH-ethyl
amino acid	amino acid	F	Cl	NH-acetyl
amino acid	amino acid	F	Cl	OH
amino acid	amino acid	F	Cl	OMe
amino acid	amino acid	F	Cl	OEt
amino acid	amino acid	F	Cl	O-cyclopropyl
amino acid	amino acid	F	Cl	O-acetyl
amino acid	amino acid	F	Cl	SH
amino acid	amino acid	F	Cl	SMe
amino acid	amino acid	F	Cl	SEt
amino acid	amino acid	F	Cl	S-cyclopropyl
amino acid	amino acid	F	Cl	F
amino acid	amino acid	F	Cl	Cl
amino acid	amino acid	F	Cl	Br
amino acid	amino acid	F	Cl	I
amino acid	H	F	Cl	H
amino acid	H	F	Cl	NH ₂
amino acid	H	F	Cl	NH-cyclopropyl
amino acid	H	F	Cl	NH-methyl
amino acid	H	F	Cl	NH-ethyl
amino acid	H	F	Cl	NH-acetyl
amino acid	H	F	Cl	OH
amino acid	H	F	Cl	OMe
amino acid	H	F	Cl	OEt
amino acid	H	F	Cl	O-cyclopropyl
amino acid	H	F	Cl	O-acetyl
amino acid	H	F	Cl	SH
amino acid	H	F	Cl	SMe
amino acid	H	F	Cl	SEt
amino acid	H	F	Cl	S-cyclopropyl
amino acid	H	F	Cl	F
amino acid	H	F	Cl	Cl
amino acid	H	F	Cl	Br
amino acid	H	F	Cl	I
amino acid	acyl	F	Cl	H
amino acid	acyl	F	Cl	NH ₂
amino acid	acyl	F	Cl	NH-cyclopropyl
amino acid	acyl	F	Cl	NH-methyl
amino acid	acyl	F	Cl	NH-ethyl
amino acid	acyl	F	Cl	NH-acetyl
amino acid	acyl	F	Cl	OH
amino acid	acyl	F	Cl	OMe
amino acid	acyl	F	Cl	OEt
amino acid	acyl	F	Cl	O-cyclopropyl
amino acid	acyl	F	Cl	O-acetyl
amino acid	acyl	F	Cl	SH
amino acid	acyl	F	Cl	SMe
amino acid	acyl	F	Cl	SEt
amino acid	acyl	F	Cl	S-cyclopropyl
amino acid	acyl	F	Cl	F
amino acid	acyl	F	Cl	Cl
amino acid	acyl	F	Cl	Br

TABLE 1-continued

	R ²	R ³	X ¹	X ²	Y
5	amino acid	acyl	F	Cl	I
	acyl	H	NH ₂	Cl	H
	acyl	H	NH ₂	Cl	NH ₂
	acyl	H	NH ₂	Cl	NH-cyclopropyl
	acyl	H	NH ₂	Cl	NH-methyl
	acyl	H	NH ₂	Cl	NH-ethyl
10	acyl	H	NH ₂	Cl	NH-acetyl
	acyl	H	NH ₂	Cl	OH
	acyl	H	NH ₂	Cl	OMe
	acyl	H	NH ₂	Cl	OEt
	acyl	H	NH ₂	Cl	O-cyclopropyl
	acyl	H	NH ₂	Cl	O-acetyl
15	acyl	H	NH ₂	Cl	SH
	acyl	H	NH ₂	Cl	SMe
	acyl	H	NH ₂	Cl	SEt
	acyl	H	NH ₂	Cl	S-cyclopropyl
	acyl	H	NH ₂	Cl	F
	acyl	H	NH ₂	Cl	Cl
20	acyl	H	NH ₂	Cl	Br
	acyl	H	NH ₂	Cl	I
	acyl	acyl	NH ₂	Cl	H
	acyl	acyl	NH ₂	Cl	NH ₂
	acyl	acyl	NH ₂	Cl	NH-cyclopropyl
	acyl	acyl	NH ₂	Cl	NH-methyl
25	acyl	acyl	NH ₂	Cl	NH-ethyl
	acyl	acyl	NH ₂	Cl	NH-acetyl
	acyl	acyl	NH ₂	Cl	OH
	acyl	acyl	NH ₂	Cl	OMe
	acyl	acyl	NH ₂	Cl	OEt
	acyl	acyl	NH ₂	Cl	O-cyclopropyl
	acyl	acyl	NH ₂	Cl	O-acetyl
30	acyl	acyl	NH ₂	Cl	SH
	acyl	acyl	NH ₂	Cl	SMe
	acyl	acyl	NH ₂	Cl	SEt
	acyl	acyl	NH ₂	Cl	S-cyclopropyl
	acyl	acyl	NH ₂	Cl	F
	acyl	acyl	NH ₂	Cl	Cl
35	acyl	acyl	NH ₂	Cl	Br
	acyl	acyl	NH ₂	Cl	I
	acyl	amino acid	NH ₂	Cl	H
	acyl	amino acid	NH ₂	Cl	NH ₂
	acyl	amino acid	NH ₂	Cl	NH-cyclopropyl
	acyl	amino acid	NH ₂	Cl	NH-methyl
40	acyl	amino acid	NH ₂	Cl	NH-ethyl
	acyl	amino acid	NH ₂	Cl	NH-acetyl
	acyl	amino acid	NH ₂	Cl	OH
	acyl	amino acid	NH ₂	Cl	OMe
	acyl	amino acid	NH ₂	Cl	OEt
	acyl	amino acid	NH ₂	Cl	O-cyclopropyl
	acyl	amino acid	NH ₂	Cl	O-acetyl
45	acyl	amino acid	NH ₂	Cl	SH
	acyl	amino acid	NH ₂	Cl	SMe
	acyl	amino acid	NH ₂	Cl	SEt
	acyl	amino acid	NH ₂	Cl	S-cyclopropyl
	acyl	amino acid	NH ₂	Cl	F
	acyl	amino acid	NH ₂	Cl	Cl
50	acyl	amino acid	NH ₂	Cl	Br
	acyl	amino acid	NH ₂	Cl	I
	H	acyl	NH ₂	Cl	H
	H	acyl	NH ₂	Cl	NH ₂
	H	acyl	NH ₂	Cl	NH-cyclopropyl
	H	acyl	NH ₂	Cl	NH-methyl
55	H	acyl	NH ₂	Cl	NH-ethyl
	H	acyl	NH ₂	Cl	NH-acetyl
	H	acyl	NH ₂	Cl	OH
	H	acyl	NH ₂	Cl	OMe
	H	acyl	NH ₂	Cl	OEt
	H	acyl	NH ₂	Cl	O-cyclopropyl
	H	acyl	NH ₂	Cl	O-acetyl
60	H	acyl	NH ₂	Cl	SH
	H	acyl	NH ₂	Cl	SMe
	H	acyl	NH ₂	Cl	SEt
	H	acyl	NH ₂	Cl	S-cyclopropyl
	H	acyl	NH ₂	Cl	F
	H	acyl	NH ₂	Cl	Cl
65	H	acyl	NH ₂	Cl	Br
	H	acyl	NH ₂	Cl	I

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
H	amino acid	NH ₂	Cl	H
H	amino acid	NH ₂	Cl	NH ₂
H	amino acid	NH ₂	Cl	NH-cyclopropyl
H	amino acid	NH ₂	Cl	NH-methyl
H	amino acid	NH ₂	Cl	NH-ethyl
H	amino acid	NH ₂	Cl	NH-acetyl
H	amino acid	NH ₂	Cl	OH
H	amino acid	NH ₂	Cl	OMe
H	amino acid	NH ₂	Cl	OEt
H	amino acid	NH ₂	Cl	O-cyclopropyl
H	amino acid	NH ₂	Cl	O-acetyl
H	amino acid	NH ₂	Cl	SH
H	amino acid	NH ₂	Cl	SMe
H	amino acid	NH ₂	Cl	SEt
H	amino acid	NH ₂	Cl	S-cyclopropyl
H	amino acid	NH ₂	Cl	F
H	amino acid	NH ₂	Cl	Cl
H	amino acid	NH ₂	Cl	Br
H	amino acid	NH ₂	Cl	I
H	amino acid	NH ₂	Cl	H
amino acid	amino acid	NH ₂	Cl	NH ₂
amino acid	amino acid	NH ₂	Cl	NH-cyclopropyl
amino acid	amino acid	NH ₂	Cl	NH-methyl
amino acid	amino acid	NH ₂	Cl	NH-ethyl
amino acid	amino acid	NH ₂	Cl	NH-acetyl
amino acid	amino acid	NH ₂	Cl	OH
amino acid	amino acid	NH ₂	Cl	OMe
amino acid	amino acid	NH ₂	Cl	OEt
amino acid	amino acid	NH ₂	Cl	O-cyclopropyl
amino acid	amino acid	NH ₂	Cl	O-acetyl
amino acid	amino acid	NH ₂	Cl	SH
amino acid	amino acid	NH ₂	Cl	SMe
amino acid	amino acid	NH ₂	Cl	SEt
amino acid	amino acid	NH ₂	Cl	S-cyclopropyl
amino acid	amino acid	NH ₂	Cl	F
amino acid	amino acid	NH ₂	Cl	Cl
amino acid	amino acid	NH ₂	Cl	Br
amino acid	amino acid	NH ₂	Cl	I
amino acid	H	NH ₂	Cl	H
amino acid	H	NH ₂	Cl	NH ₂
amino acid	H	NH ₂	Cl	NH-cyclopropyl
amino acid	H	NH ₂	Cl	NH-methyl
amino acid	H	NH ₂	Cl	NH-ethyl
amino acid	H	NH ₂	Cl	NH-acetyl
amino acid	H	NH ₂	Cl	OH
amino acid	H	NH ₂	Cl	OMe
amino acid	H	NH ₂	Cl	OEt
amino acid	H	NH ₂	Cl	O-cyclopropyl
amino acid	H	NH ₂	Cl	O-acetyl
amino acid	H	NH ₂	Cl	SH
amino acid	H	NH ₂	Cl	SMe
amino acid	H	NH ₂	Cl	SEt
amino acid	H	NH ₂	Cl	S-cyclopropyl
amino acid	H	NH ₂	Cl	F
amino acid	H	NH ₂	Cl	Cl
amino acid	H	NH ₂	Cl	Br
amino acid	H	NH ₂	Cl	I
amino acid	acyl	NH ₂	Cl	H
amino acid	acyl	NH ₂	Cl	NH ₂
amino acid	acyl	NH ₂	Cl	NH-cyclopropyl
amino acid	acyl	NH ₂	Cl	NH-methyl
amino acid	acyl	NH ₂	Cl	NH-ethyl
amino acid	acyl	NH ₂	Cl	NH-acetyl
amino acid	acyl	NH ₂	Cl	OH
amino acid	acyl	NH ₂	Cl	OMe
amino acid	acyl	NH ₂	Cl	OEt
amino acid	acyl	NH ₂	Cl	O-cyclopropyl
amino acid	acyl	NH ₂	Cl	O-acetyl
amino acid	acyl	NH ₂	Cl	SH
amino acid	acyl	NH ₂	Cl	SMe
amino acid	acyl	NH ₂	Cl	SEt
amino acid	acyl	NH ₂	Cl	S-cyclopropyl
amino acid	acyl	NH ₂	Cl	F
amino acid	acyl	NH ₂	Cl	Cl
amino acid	acyl	NH ₂	Cl	Br
amino acid	acyl	NH ₂	Cl	I
acyl	H	SH	Cl	H

TABLE 1-continued

	R ²	R ³	X ¹	X ²	Y
5	acyl	H	SH	Cl	NH ₂
	acyl	H	SH	Cl	NH-cyclopropyl
	acyl	H	SH	Cl	NH-methyl
	acyl	H	SH	Cl	NH-ethyl
	acyl	H	SH	Cl	NH-acetyl
	acyl	H	SH	Cl	OH
10	acyl	H	SH	Cl	OMe
	acyl	H	SH	Cl	OEt
	acyl	H	SH	Cl	O-cyclopropyl
	acyl	H	SH	Cl	O-acetyl
	acyl	H	SH	Cl	SH
	acyl	H	SH	Cl	SMe
15	acyl	H	SH	Cl	SEt
	acyl	H	SH	Cl	S-cyclopropyl
	acyl	H	SH	Cl	F
	acyl	H	SH	Cl	Cl
	acyl	H	SH	Cl	Br
	acyl	H	SH	Cl	I
20	acyl	acyl	SH	Cl	H
	acyl	acyl	SH	Cl	NH ₂
	acyl	acyl	SH	Cl	NH-cyclopropyl
	acyl	acyl	SH	Cl	NH-methyl
	acyl	acyl	SH	Cl	NH-ethyl
	acyl	acyl	SH	Cl	NH-acetyl
25	acyl	acyl	SH	Cl	OH
	acyl	acyl	SH	Cl	OMe
	acyl	acyl	SH	Cl	OEt
	acyl	acyl	SH	Cl	O-cyclopropyl
	acyl	acyl	SH	Cl	O-acetyl
	acyl	acyl	SH	Cl	SH
	acyl	acyl	SH	Cl	SMe
30	acyl	acyl	SH	Cl	SEt
	acyl	acyl	SH	Cl	S-cyclopropyl
	acyl	acyl	SH	Cl	F
	acyl	acyl	SH	Cl	Cl
	acyl	acyl	SH	Cl	Br
	acyl	acyl	SH	Cl	I
35	acyl	amino acid	SH	Cl	H
	acyl	amino acid	SH	Cl	NH ₂
	acyl	amino acid	SH	Cl	NH-cyclopropyl
	acyl	amino acid	SH	Cl	NH-methyl
	acyl	amino acid	SH	Cl	NH-ethyl
	acyl	amino acid	SH	Cl	NH-acetyl
40	acyl	amino acid	SH	Cl	OH
	acyl	amino acid	SH	Cl	OMe
	acyl	amino acid	SH	Cl	OEt
	acyl	amino acid	SH	Cl	O-cyclopropyl
	acyl	amino acid	SH	Cl	O-acetyl
	acyl	amino acid	SH	Cl	SH
	acyl	amino acid	SH	Cl	SMe
45	acyl	amino acid	SH	Cl	SEt
	acyl	amino acid	SH	Cl	S-cyclopropyl
	acyl	amino acid	SH	Cl	F
	acyl	amino acid	SH	Cl	Cl
	acyl	amino acid	SH	Cl	Br
	acyl	amino acid	SH	Cl	I
50	H	acyl	SH	Cl	H
	H	acyl	SH	Cl	NH ₂
	H	acyl	SH	Cl	NH-cyclopropyl
	H	acyl	SH	Cl	NH-methyl
	H	acyl	SH	Cl	NH-ethyl
	H	acyl	SH	Cl	NH-acetyl
55	H	acyl	SH	Cl	OH
	H	acyl	SH	Cl	OMe
	H	acyl	SH	Cl	OEt
	H	acyl	SH	Cl	O-cyclopropyl
	H	acyl	SH	Cl	O-acetyl
	H	acyl	SH	Cl	SH
	H	acyl	SH	Cl	SMe
60	H	acyl	SH	Cl	SEt
	H	acyl	SH	Cl	S-cyclopropyl
	H	acyl	SH	Cl	F
	H	acyl	SH	Cl	Cl
	H	acyl	SH	Cl	Br
	H	acyl	SH	Cl	I
65	H	amino acid	SH	Cl	H
	H	amino acid	SH	Cl	NH ₂

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
H	amino acid	SH	Cl	NH-cyclopropyl
H	amino acid	SH	Cl	NH-methyl
H	amino acid	SH	Cl	NH-ethyl
H	amino acid	SH	Cl	NH-acetyl
H	amino acid	SH	Cl	OH
H	amino acid	SH	Cl	OMe
H	amino acid	SH	Cl	OEt
H	amino acid	SH	Cl	O-cyclopropyl
H	amino acid	SH	Cl	O-acetyl
H	amino acid	SH	Cl	SH
H	amino acid	SH	Cl	SMe
H	amino acid	SH	Cl	SEt
H	amino acid	SH	Cl	S-cyclopropyl
H	amino acid	SH	Cl	F
H	amino acid	SH	Cl	Cl
H	amino acid	SH	Cl	Br
H	amino acid	SH	Cl	I
amino acid	amino acid	SH	Cl	H
amino acid	amino acid	SH	Cl	NH ₂
amino acid	amino acid	SH	Cl	NH-cyclopropyl
amino acid	amino acid	SH	Cl	NH-methyl
amino acid	amino acid	SH	Cl	NH-ethyl
amino acid	amino acid	SH	Cl	NH-acetyl
amino acid	amino acid	SH	Cl	OH
amino acid	amino acid	SH	Cl	OMe
amino acid	amino acid	SH	Cl	OEt
amino acid	amino acid	SH	Cl	O-cyclopropyl
amino acid	amino acid	SH	Cl	O-acetyl
amino acid	amino acid	SH	Cl	SH
amino acid	amino acid	SH	Cl	SMe
amino acid	amino acid	SH	Cl	SEt
amino acid	amino acid	SH	Cl	S-cyclopropyl
amino acid	amino acid	SH	Cl	F
amino acid	amino acid	SH	Cl	Cl
amino acid	amino acid	SH	Cl	Br
amino acid	amino acid	SH	Cl	I
amino acid	amino acid	SH	Cl	H
H	SH	Cl	H	
amino acid	H	SH	Cl	NH ₂
amino acid	H	SH	Cl	NH-cyclopropyl
amino acid	H	SH	Cl	NH-methyl
amino acid	H	SH	Cl	NH-ethyl
amino acid	H	SH	Cl	NH-acetyl
amino acid	H	SH	Cl	OH
amino acid	H	SH	Cl	OMe
amino acid	H	SH	Cl	OEt
amino acid	H	SH	Cl	O-cyclopropyl
amino acid	H	SH	Cl	O-acetyl
amino acid	H	SH	Cl	SH
amino acid	H	SH	Cl	SMe
amino acid	H	SH	Cl	SEt
amino acid	H	SH	Cl	S-cyclopropyl
amino acid	H	SH	Cl	F
amino acid	H	SH	Cl	Cl
amino acid	H	SH	Cl	Br
amino acid	H	SH	Cl	I
amino acid	H	SH	Cl	H
amino acid	acyl	SH	Cl	H
amino acid	acyl	SH	Cl	NH ₂
amino acid	acyl	SH	Cl	NH-cyclopropyl
amino acid	acyl	SH	Cl	NH-methyl
amino acid	acyl	SH	Cl	NH-ethyl
amino acid	acyl	SH	Cl	NH-acetyl
amino acid	acyl	SH	Cl	OH
amino acid	acyl	SH	Cl	OMe
amino acid	acyl	SH	Cl	OEt
amino acid	acyl	SH	Cl	O-cyclopropyl
amino acid	acyl	SH	Cl	O-acetyl
amino acid	acyl	SH	Cl	SH
amino acid	acyl	SH	Cl	SMe
amino acid	acyl	SH	Cl	SEt
amino acid	acyl	SH	Cl	S-cyclopropyl
amino acid	acyl	SH	Cl	F
amino acid	acyl	SH	Cl	Cl
amino acid	acyl	SH	Cl	Br
amino acid	acyl	SH	Cl	I
amino acid	acyl	SH	Cl	H
acyl	H	OH	Cl	H
acyl	H	OH	Cl	NH ₂
acyl	H	OH	Cl	NH-cyclopropyl

TABLE 1-continued

R ²		R ³	X ¹	X ²	Y
5	acyl	H	OH	Cl	NH-methyl
	acyl	H	OH	Cl	NH-ethyl
	acyl	H	OH	Cl	NH-acetyl
	acyl	H	OH	Cl	OH
	acyl	H	OH	Cl	OMe
10	acyl	H	OH	Cl	OEt
	acyl	H	OH	Cl	O-cyclopropyl
	acyl	H	OH	Cl	O-acetyl
	acyl	H	OH	Cl	SH
	acyl	H	OH	Cl	SMe
15	acyl	H	OH	Cl	SEt
	acyl	H	OH	Cl	S-cyclopropyl
	acyl	H	OH	Cl	F
	acyl	H	OH	Cl	Cl
	acyl	H	OH	Cl	Br
20	acyl	H	OH	Cl	I
	acyl	acyl	OH	Cl	H
	acyl	acyl	OH	Cl	NH ₂
	acyl	acyl	OH	Cl	NH-cyclopropyl
	acyl	acyl	OH	Cl	NH-methyl
25	acyl	acyl	OH	Cl	NH-ethyl
	acyl	acyl	OH	Cl	NH-acetyl
	acyl	acyl	OH	Cl	OH
	acyl	acyl	OH	Cl	OMe
	acyl	acyl	OH	Cl	OEt
30	acyl	acyl	OH	Cl	O-cyclopropyl
	acyl	acyl	OH	Cl	O-acetyl
	acyl	acyl	OH	Cl	SH
	acyl	acyl	OH	Cl	SMe
	acyl	acyl	OH	Cl	SEt
35	acyl	acyl	OH	Cl	S-cyclopropyl
	acyl	acyl	OH	Cl	F
	acyl	acyl	OH	Cl	Cl
	acyl	acyl	OH	Cl	Br
	acyl	acyl	OH	Cl	I
40	acyl	amino acid	OH	Cl	H
	acyl	amino acid	OH	Cl	NH ₂
	acyl	amino acid	OH	Cl	NH-cyclopropyl
	acyl	amino acid	OH	Cl	NH-methyl
	acyl	amino acid	OH	Cl	NH-ethyl
45	acyl	amino acid	OH	Cl	NH-acetyl
	acyl	amino acid	OH	Cl	OH
	acyl	amino acid	OH	Cl	OMe
	acyl	amino acid	OH	Cl	OEt
	acyl	amino acid	OH	Cl	O-cyclopropyl
50	acyl	amino acid	OH	Cl	O-acetyl
	acyl	amino acid	OH	Cl	SH
	acyl	amino acid	OH	Cl	SMe
	acyl	amino acid	OH	Cl	SEt
	acyl	amino acid	OH	Cl	S-cyclopropyl
55	acyl	amino acid	OH	Cl	F
	acyl	amino acid	OH	Cl	Cl
	acyl	amino acid	OH	Cl	Br
	acyl	amino acid	OH	Cl	I
	H	acyl	OH	Cl	H
60	H	acyl	OH	Cl	NH ₂
	H	acyl	OH	Cl	NH-cyclopropyl
	H	acyl	OH	Cl	NH-methyl
	H	acyl	OH	Cl	NH-ethyl
	H	acyl	OH	Cl	NH-acetyl
65	H	acyl	OH	Cl	OH
	H	acyl	OH	Cl	OMe
	H	acyl	OH	Cl	OEt
	H	acyl	OH	Cl	O-cyclopropyl
	H	acyl	OH	Cl	O-acetyl
	H	acyl	OH	Cl	SH
	H	acyl	OH	Cl	SMe
	H	acyl	OH	Cl	SEt
	H	acyl	OH	Cl	S-cyclopropyl
	H	acyl	OH	Cl	F
	H	acyl	OH	Cl	Cl
	H	acyl	OH	Cl	Br
	H	acyl	OH	Cl	I
	H	amino acid	OH	Cl	H
	H	amino acid	OH	Cl	NH ₂
	H	amino acid	OH	Cl	NH-cyclopropyl
	H	amino acid	OH	Cl	NH-methyl

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
H	amino acid	OH	Cl	NH-ethyl
H	amino acid	OH	Cl	NH-acetyl
H	amino acid	OH	Cl	OH
H	amino acid	OH	Cl	OMe
H	amino acid	OH	Cl	OEt
H	amino acid	OH	Cl	O-cyclopropyl
H	amino acid	OH	Cl	O-acetyl
H	amino acid	OH	Cl	SH
H	amino acid	OH	Cl	SMe
H	amino acid	OH	Cl	SEt
H	amino acid	OH	Cl	S-cyclopropyl
H	amino acid	OH	Cl	F
H	amino acid	OH	Cl	Cl
H	amino acid	OH	Cl	Br
H	amino acid	OH	Cl	I
amino acid	amino acid	OH	Cl	H
amino acid	amino acid	OH	Cl	NH ₂
amino acid	amino acid	OH	Cl	NH-cyclopropyl
amino acid	amino acid	OH	Cl	NH-methyl
amino acid	amino acid	OH	Cl	NH-ethyl
amino acid	amino acid	OH	Cl	NH-acetyl
amino acid	amino acid	OH	Cl	OH
amino acid	amino acid	OH	Cl	OMe
amino acid	amino acid	OH	Cl	OEt
amino acid	amino acid	OH	Cl	O-cyclopropyl
amino acid	amino acid	OH	Cl	O-acetyl
amino acid	amino acid	OH	Cl	SH
amino acid	amino acid	OH	Cl	SMe
amino acid	amino acid	OH	Cl	SEt
amino acid	amino acid	OH	Cl	S-cyclopropyl
amino acid	amino acid	OH	Cl	F
amino acid	amino acid	OH	Cl	Cl
amino acid	amino acid	OH	Cl	Br
amino acid	amino acid	OH	Cl	I
amino acid	H	OH	Cl	H
amino acid	H	OH	Cl	NH ₂
amino acid	H	OH	Cl	NH-cyclopropyl
amino acid	H	OH	Cl	NH-methyl
amino acid	H	OH	Cl	NH-ethyl
amino acid	H	OH	Cl	NH-acetyl
amino acid	H	OH	Cl	OH
amino acid	H	OH	Cl	OMe
amino acid	H	OH	Cl	OEt
amino acid	H	OH	Cl	O-cyclopropyl
amino acid	H	OH	Cl	O-acetyl
amino acid	H	OH	Cl	SH
amino acid	H	OH	Cl	SMe
amino acid	H	OH	Cl	SEt
amino acid	H	OH	Cl	S-cyclopropyl
amino acid	H	OH	Cl	F
amino acid	H	OH	Cl	Cl
amino acid	H	OH	Cl	Br
amino acid	H	OH	Cl	I
amino acid	acyl	OH	Cl	H
amino acid	acyl	OH	Cl	NH ₂
amino acid	acyl	OH	Cl	NH-cyclopropyl
amino acid	acyl	OH	Cl	NH-methyl
amino acid	acyl	OH	Cl	NH-ethyl
amino acid	acyl	OH	Cl	NH-acetyl
amino acid	acyl	OH	Cl	OH
amino acid	acyl	OH	Cl	OMe
amino acid	acyl	OH	Cl	OEt
amino acid	acyl	OH	Cl	O-cyclopropyl
amino acid	acyl	OH	Cl	O-acetyl
amino acid	acyl	OH	Cl	SH
amino acid	acyl	OH	Cl	SMe
amino acid	acyl	OH	Cl	SEt
amino acid	acyl	OH	Cl	S-cyclopropyl
amino acid	acyl	OH	Cl	F
amino acid	acyl	OH	Cl	Cl
amino acid	acyl	OH	Cl	Br
amino acid	acyl	OH	Cl	I
acyl	H	CH ₃	F	H
acyl	H	CH ₃	F	NH ₂
acyl	H	CH ₃	F	NH-cyclopropyl
acyl	H	CH ₃	F	NH-methyl
acyl	H	CH ₃	F	NH-ethyl
acyl	H	CH ₃	F	NH-acetyl

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y	
5	acyl	H	CH ₃	F	NH-acetyl
	acyl	H	CH ₃	F	OH
	acyl	H	CH ₃	F	OMe
	acyl	H	CH ₃	F	OEt
	acyl	H	CH ₃	F	O-cyclopropyl
10	acyl	H	CH ₃	F	O-acetyl
	acyl	H	CH ₃	F	SH
	acyl	H	CH ₃	F	SMe
	acyl	H	CH ₃	F	SEt
	acyl	H	CH ₃	F	S-cyclopropyl
15	acyl	H	CH ₃	F	F
	acyl	H	CH ₃	F	Cl
	acyl	H	CH ₃	F	Br
	acyl	H	CH ₃	F	I
	acyl	acyl	CH ₃	F	H
20	acyl	acyl	CH ₃	F	NH ₂
	acyl	acyl	CH ₃	F	NH-cyclopropyl
	acyl	acyl	CH ₃	F	NH-methyl
	acyl	acyl	CH ₃	F	NH-ethyl
	acyl	acyl	CH ₃	F	NH-acetyl
25	acyl	acyl	CH ₃	F	OH
	acyl	acyl	CH ₃	F	OMe
	acyl	acyl	CH ₃	F	OEt
	acyl	acyl	CH ₃	F	O-cyclopropyl
	acyl	acyl	CH ₃	F	O-acetyl
30	acyl	acyl	CH ₃	F	SH
	acyl	acyl	CH ₃	F	SMe
	acyl	acyl	CH ₃	F	SEt
	acyl	acyl	CH ₃	F	S-cyclopropyl
	acyl	acyl	CH ₃	F	F
35	acyl	acyl	CH ₃	F	Cl
	acyl	acyl	CH ₃	F	Br
	acyl	acyl	CH ₃	F	I
	acyl	amino acid	CH ₃	F	H
	acyl	amino acid	CH ₃	F	NH ₂
40	acyl	amino acid	CH ₃	F	NH-cyclopropyl
	acyl	amino acid	CH ₃	F	NH-methyl
	acyl	amino acid	CH ₃	F	NH-ethyl
	acyl	amino acid	CH ₃	F	NH-acetyl
	acyl	amino acid	CH ₃	F	OH
45	acyl	amino acid	CH ₃	F	OMe
	acyl	amino acid	CH ₃	F	OEt
	acyl	amino acid	CH ₃	F	O-cyclopropyl
	acyl	amino acid	CH ₃	F	O-acetyl
	acyl	amino acid	CH ₃	F	SH
50	acyl	amino acid	CH ₃	F	SMe
	acyl	amino acid	CH ₃	F	SEt
	acyl	amino acid	CH ₃	F	S-cyclopropyl
	acyl	amino acid	CH ₃	F	F
	acyl	amino acid	CH ₃	F	Cl
55	acyl	amino acid	CH ₃	F	Br
	H	acyl	CH ₃	F	I
	H	acyl	CH ₃	F	H
	H	acyl	CH ₃	F	NH ₂
	H	acyl	CH ₃	F	NH-cyclopropyl
60	H	acyl	CH ₃	F	NH-methyl
	H	acyl	CH ₃	F	NH-ethyl
	H	acyl	CH ₃	F	NH-acetyl
	H	acyl	CH ₃	F	OH
	H	acyl	CH ₃	F	OMe
65	H	acyl	CH ₃	F	OEt
	H	acyl	CH ₃	F	O-cyclopropyl
	H	acyl	CH ₃	F	O-acetyl
	H	acyl	CH ₃	F	SH
	H	acyl	CH ₃	F	SMe
70	H	acyl	CH ₃	F	SEt
	H	acyl	CH ₃	F	S-cyclopropyl
	H	acyl	CH ₃	F	F
	H	acyl	CH ₃	F	Cl
	H	acyl	CH ₃	F	Br
75	H	acyl	CH ₃	F	I
	H	amino acid	CH ₃	F	H
	H	amino acid	CH ₃	F	NH ₂
	H	amino acid	CH ₃	F	NH-cyclopropyl
	H	amino acid	CH ₃	F	NH-methyl
80	H	amino acid	CH ₃	F	NH-ethyl
	H	amino acid	CH ₃	F	NH-acetyl

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
H	amino acid	CH ₃	F	OH
H	amino acid	CH ₃	F	OMe
H	amino acid	CH ₃	F	OEt
H	amino acid	CH ₃	F	O-cyclopropyl
H	amino acid	CH ₃	F	O-acetyl
H	amino acid	CH ₃	F	SH
H	amino acid	CH ₃	F	SMe
H	amino acid	CH ₃	F	SEt
H	amino acid	CH ₃	F	S-cyclopropyl
H	amino acid	CH ₃	F	F
H	amino acid	CH ₃	F	Cl
H	amino acid	CH ₃	F	Br
H	amino acid	CH ₃	F	I
amino acid	amino acid	CH ₃	F	H
amino acid	amino acid	CH ₃	F	NH ₂
amino acid	amino acid	CH ₃	F	NH-cyclopropyl
amino acid	amino acid	CH ₃	F	NH-methyl
amino acid	amino acid	CH ₃	F	NH-ethyl
amino acid	amino acid	CH ₃	F	NH-acetyl
amino acid	amino acid	CH ₃	F	OH
amino acid	amino acid	CH ₃	F	OMe
amino acid	amino acid	CH ₃	F	OEt
amino acid	amino acid	CH ₃	F	O-cyclopropyl
amino acid	amino acid	CH ₃	F	O-acetyl
amino acid	amino acid	CH ₃	F	SH
amino acid	amino acid	CH ₃	F	SMe
amino acid	amino acid	CH ₃	F	SEt
amino acid	amino acid	CH ₃	F	S-cyclopropyl
amino acid	amino acid	CH ₃	F	F
amino acid	amino acid	CH ₃	F	Cl
amino acid	amino acid	CH ₃	F	Br
amino acid	amino acid	CH ₃	F	I
amino acid	H	CH ₃	F	H
amino acid	H	CH ₃	F	NH ₂
amino acid	H	CH ₃	F	NH-cyclopropyl
amino acid	H	CH ₃	F	NH-methyl
amino acid	H	CH ₃	F	NH-ethyl
amino acid	H	CH ₃	F	NH-acetyl
amino acid	H	CH ₃	F	OH
amino acid	H	CH ₃	F	OMe
amino acid	H	CH ₃	F	OEt
amino acid	H	CH ₃	F	O-cyclopropyl
amino acid	H	CH ₃	F	O-acetyl
amino acid	H	CH ₃	F	SH
amino acid	H	CH ₃	F	SMe
amino acid	H	CH ₃	F	SEt
amino acid	H	CH ₃	F	S-cyclopropyl
amino acid	H	CH ₃	F	F
amino acid	H	CH ₃	F	Cl
amino acid	H	CH ₃	F	Br
amino acid	H	CH ₃	F	I
amino acid	acyl	CH ₃	F	H
amino acid	acyl	CH ₃	F	NH ₂
amino acid	acyl	CH ₃	F	NH-cyclopropyl
amino acid	acyl	CH ₃	F	NH-methyl
amino acid	acyl	CH ₃	F	NH-ethyl
amino acid	acyl	CH ₃	F	NH-acetyl
amino acid	acyl	CH ₃	F	OH
amino acid	acyl	CH ₃	F	OMe
amino acid	acyl	CH ₃	F	OEt
amino acid	acyl	CH ₃	F	O-cyclopropyl
amino acid	acyl	CH ₃	F	O-acetyl
amino acid	acyl	CH ₃	F	SH
amino acid	acyl	CH ₃	F	SMe
amino acid	acyl	CH ₃	F	SEt
amino acid	acyl	CH ₃	F	S-cyclopropyl
amino acid	acyl	CH ₃	F	F
amino acid	acyl	CH ₃	F	Cl
amino acid	acyl	CH ₃	F	Br
amino acid	acyl	CH ₃	F	I
acyl	H	CF ₃	F	H
acyl	H	CF ₃	F	NH ₂
acyl	H	CF ₃	F	NH-cyclopropyl
acyl	H	CF ₃	F	NH-methyl
acyl	H	CF ₃	F	NH-ethyl
acyl	H	CF ₃	F	NH-acetyl
acyl	H	CF ₃	F	OH

TABLE 1-continued

	R ²	R ³	X ¹	X ²	Y
5	acyl	H	CF ₃	F	OMe
	acyl	H	CF ₃	F	OEt
	acyl	H	CF ₃	F	O-cyclopropyl
	acyl	H	CF ₃	F	O-acetyl
	acyl	H	CF ₃	F	SH
	acyl	H	CF ₃	F	SMe
10	acyl	H	CF ₃	F	SEt
	acyl	H	CF ₃	F	S-cyclopropyl
	acyl	H	CF ₃	F	F
	acyl	H	CF ₃	F	Cl
	acyl	H	CF ₃	F	Br
	acyl	H	CF ₃	F	I
15	acyl	acyl	CF ₃	F	H
	acyl	acyl	CF ₃	F	NH ₂
	acyl	acyl	CF ₃	F	NH-cyclopropyl
	acyl	acyl	CF ₃	F	NH-methyl
	acyl	acyl	CF ₃	F	NH-ethyl
	acyl	acyl	CF ₃	F	NH-acetyl
20	acyl	acyl	CF ₃	F	OH
	acyl	acyl	CF ₃	F	OMe
	acyl	acyl	CF ₃	F	OEt
	acyl	acyl	CF ₃	F	O-cyclopropyl
	acyl	acyl	CF ₃	F	O-acetyl
	acyl	acyl	CF ₃	F	SH
25	acyl	acyl	CF ₃	F	SMe
	acyl	acyl	CF ₃	F	SEt
	acyl	acyl	CF ₃	F	S-cyclopropyl
	acyl	acyl	CF ₃	F	F
	acyl	acyl	CF ₃	F	Cl
	acyl	acyl	CF ₃	F	Br
	acyl	acyl	CF ₃	F	I
30	acyl	amino acid	CF ₃	F	H
	acyl	amino acid	CF ₃	F	NH ₂
	acyl	amino acid	CF ₃	F	NH-cyclopropyl
	acyl	amino acid	CF ₃	F	NH-methyl
	acyl	amino acid	CF ₃	F	NH-ethyl
	acyl	amino acid	CF ₃	F	NH-acetyl
35	acyl	amino acid	CF ₃	F	OH
	acyl	amino acid	CF ₃	F	OMe
	acyl	amino acid	CF ₃	F	OEt
	acyl	amino acid	CF ₃	F	O-cyclopropyl
	acyl	amino acid	CF ₃	F	O-acetyl
	acyl	amino acid	CF ₃	F	SH
40	acyl	amino acid	CF ₃	F	SMe
	acyl	amino acid	CF ₃	F	SEt
	acyl	amino acid	CF ₃	F	S-cyclopropyl
	acyl	amino acid	CF ₃	F	F
	acyl	amino acid	CF ₃	F	Cl
	acyl	amino acid	CF ₃	F	Br
	acyl	amino acid	CF ₃	F	I
45	H	acyl	CF ₃	F	H
	H	acyl	CF ₃	F	NH ₂
	H	acyl	CF ₃	F	NH-cyclopropyl
	H	acyl	CF ₃	F	NH-methyl
	H	acyl	CF ₃	F	NH-ethyl
	H	acyl	CF ₃	F	NH-acetyl
50	H	acyl	CF ₃	F	OH
	H	acyl	CF ₃	F	OMe
	H	acyl	CF ₃	F	OEt
	H	acyl	CF ₃	F	O-cyclopropyl
	H	acyl	CF ₃	F	O-acetyl
	H	acyl	CF ₃	F	SH
55	H	acyl	CF ₃	F	SMe
	H	acyl	CF ₃	F	SEt
	H	acyl	CF ₃	F	S-cyclopropyl
	H	acyl	CF ₃	F	F
	H	acyl	CF ₃	F	Cl
	H	acyl	CF ₃	F	Br
	H	acyl	CF ₃	F	I
60	H	amino acid	CF ₃	F	H
	H	amino acid	CF ₃	F	NH ₂
	H	amino acid	CF ₃	F	NH-cyclopropyl
	H	amino acid	CF ₃	F	NH-methyl
	H	amino acid	CF ₃	F	NH-ethyl
	H	amino acid	CF ₃	F	NH-acetyl
65	H	amino acid	CF ₃	F	OH
	H	amino acid	CF ₃	F	OMe

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
H	amino acid	CF ₃	F	OEt
H	amino acid	CF ₃	F	O-cyclopropyl
H	amino acid	CF ₃	F	O-acetyl
H	amino acid	CF ₃	F	SH
H	amino acid	CF ₃	F	SMe
H	amino acid	CF ₃	F	SEt
H	amino acid	CF ₃	F	S-cyclopropyl
H	amino acid	CF ₃	F	F
H	amino acid	CF ₃	F	Cl
H	amino acid	CF ₃	F	Br
H	amino acid	CF ₃	F	I
amino acid	amino acid	CF ₃	F	H
amino acid	amino acid	CF ₃	F	NH ₂
amino acid	amino acid	CF ₃	F	NH-cyclopropyl
amino acid	amino acid	CF ₃	F	NH-methyl
amino acid	amino acid	CF ₃	F	NH-ethyl
amino acid	amino acid	CF ₃	F	NH-acetyl
amino acid	amino acid	CF ₃	F	OH
amino acid	amino acid	CF ₃	F	OMe
amino acid	amino acid	CF ₃	F	OEt
amino acid	amino acid	CF ₃	F	O-cyclopropyl
amino acid	amino acid	CF ₃	F	O-acetyl
amino acid	amino acid	CF ₃	F	SH
amino acid	amino acid	CF ₃	F	SMe
amino acid	amino acid	CF ₃	F	SEt
amino acid	amino acid	CF ₃	F	S-cyclopropyl
amino acid	amino acid	CF ₃	F	F
amino acid	amino acid	CF ₃	F	Cl
amino acid	amino acid	CF ₃	F	Br
amino acid	amino acid	CF ₃	F	I
amino acid	H	CF ₃	F	H
amino acid	H	CF ₃	F	NH ₂
amino acid	H	CF ₃	F	NH-cyclopropyl
amino acid	H	CF ₃	F	NH-methyl
amino acid	H	CF ₃	F	NH-ethyl
amino acid	H	CF ₃	F	NH-acetyl
amino acid	H	CF ₃	F	OH
amino acid	H	CF ₃	F	OMe
amino acid	H	CF ₃	F	OEt
amino acid	H	CF ₃	F	O-cyclopropyl
amino acid	H	CF ₃	F	O-acetyl
amino acid	H	CF ₃	F	SH
amino acid	H	CF ₃	F	SMe
amino acid	H	CF ₃	F	SEt
amino acid	H	CF ₃	F	S-cyclopropyl
amino acid	H	CF ₃	F	F
amino acid	H	CF ₃	F	Cl
amino acid	H	CF ₃	F	Br
amino acid	H	CF ₃	F	I
amino acid	acyl	CF ₃	F	H
amino acid	acyl	CF ₃	F	NH ₂
amino acid	acyl	CF ₃	F	NH-cyclopropyl
amino acid	acyl	CF ₃	F	NH-methyl
amino acid	acyl	CF ₃	F	NH-ethyl
amino acid	acyl	CF ₃	F	NH-acetyl
amino acid	acyl	CF ₃	F	OH
amino acid	acyl	CF ₃	F	OMe
amino acid	acyl	CF ₃	F	OEt
amino acid	acyl	CF ₃	F	O-cyclopropyl
amino acid	acyl	CF ₃	F	O-acetyl
amino acid	acyl	CF ₃	F	SH
amino acid	acyl	CF ₃	F	SMe
amino acid	acyl	CF ₃	F	SEt
amino acid	acyl	CF ₃	F	S-cyclopropyl
amino acid	acyl	CF ₃	F	F
amino acid	acyl	CF ₃	F	Cl
amino acid	acyl	CF ₃	F	Br
amino acid	acyl	CF ₃	F	I
acyl	H	Br	F	H
acyl	H	Br	F	NH ₂
acyl	H	Br	F	NH-cyclopropyl
acyl	H	Br	F	NH-methyl
acyl	H	Br	F	NH-ethyl
acyl	H	Br	F	NH-acetyl
acyl	H	Br	F	OH
acyl	H	Br	F	OMe
acyl	H	Br	F	OEt

TABLE 1-continued

	R ²	R ³	X ¹	X ²	Y
5	acyl	H	Br	F	O-cyclopropyl
	acyl	H	Br	F	O-acetyl
	acyl	H	Br	F	SH
	acyl	H	Br	F	SMe
	acyl	H	Br	F	SEt
	acyl	H	Br	F	S-cyclopropyl
10	acyl	H	Br	F	F
	acyl	H	Br	F	Cl
	acyl	H	Br	F	Br
	acyl	H	Br	F	I
	acyl	acyl	Br	F	H
	acyl	acyl	Br	F	NH ₂
15	acyl	acyl	Br	F	NH-cyclopropyl
	acyl	acyl	Br	F	NH-methyl
	acyl	acyl	Br	F	NH-ethyl
	acyl	acyl	Br	F	NH-acetyl
	acyl	acyl	Br	F	OH
	acyl	acyl	Br	F	OMe
	acyl	acyl	Br	F	OEt
20	acyl	acyl	Br	F	O-cyclopropyl
	acyl	acyl	Br	F	O-acetyl
	acyl	acyl	Br	F	SH
	acyl	acyl	Br	F	SMe
	acyl	acyl	Br	F	SEt
	acyl	acyl	Br	F	S-cyclopropyl
25	acyl	acyl	Br	F	F
	acyl	acyl	Br	F	Cl
	acyl	acyl	Br	F	I
	acyl	acyl	Br	F	H
	acyl	amino acid	Br	F	NH ₂
30	acyl	amino acid	Br	F	NH-cyclopropyl
	acyl	amino acid	Br	F	NH-methyl
	acyl	amino acid	Br	F	NH-ethyl
	acyl	amino acid	Br	F	NH-acetyl
	acyl	amino acid	Br	F	OH
	acyl	amino acid	Br	F	OMe
	acyl	amino acid	Br	F	OEt
35	acyl	amino acid	Br	F	O-cyclopropyl
	acyl	amino acid	Br	F	O-acetyl
	acyl	amino acid	Br	F	SH
	acyl	amino acid	Br	F	SMe
	acyl	amino acid	Br	F	SEt
40	acyl	amino acid	Br	F	S-cyclopropyl
	acyl	amino acid	Br	F	F
	acyl	amino acid	Br	F	Cl
	acyl	amino acid	Br	F	Br
	acyl	amino acid	Br	F	I
	H	acyl	Br	F	H
	H	acyl	Br	F	NH ₂
45	H	acyl	Br	F	NH-cyclopropyl
	H	acyl	Br	F	NH-methyl
	H	acyl	Br	F	NH-ethyl
	H	acyl	Br	F	NH-acetyl
	H	acyl	Br	F	OH
	H	acyl	Br	F	OMe
50	H	acyl	Br	F	OEt
	H	acyl	Br	F	O-cyclopropyl
	H	acyl	Br	F	O-acetyl
	H	acyl	Br	F	SH
	H	acyl	Br	F	SMe
	H	acyl	Br	F	SEt
55	H	acyl	Br	F	S-cyclopropyl
	H	acyl	Br	F	F
	H	acyl	Br	F	Cl
	H	acyl	Br	F	Br
	H	acyl	Br	F	I
	H	amino acid	Br	F	H
	H	amino acid	Br	F	NH ₂
60	H	amino acid	Br	F	NH-cyclopropyl
	H	amino acid	Br	F	NH-methyl
	H	amino acid	Br	F	NH-ethyl
	H	amino acid	Br	F	NH-acetyl
	H	amino acid	Br	F	OH
	H	amino acid	Br	F	OMe
65	H	amino acid	Br	F	OEt
	H	amino acid	Br	F	O-cyclopropyl

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
H	amino acid	Br	F	O-acetyl
H	amino acid	Br	F	SH
H	amino acid	Br	F	SMe
H	amino acid	Br	F	SEt
H	amino acid	Br	F	S-cyclopropyl
H	amino acid	Br	F	F
H	amino acid	Br	F	Cl
H	amino acid	Br	F	Br
H	amino acid	Br	F	I
amino acid	amino acid	Br	F	H
amino acid	amino acid	Br	F	NH ₂
amino acid	amino acid	Br	F	NH-cyclopropyl
amino acid	amino acid	Br	F	NH-methyl
amino acid	amino acid	Br	F	NH-ethyl
amino acid	amino acid	Br	F	NH-acetyl
amino acid	amino acid	Br	F	OH
amino acid	amino acid	Br	F	OMe
amino acid	amino acid	Br	F	OEt
amino acid	amino acid	Br	F	O-cyclopropyl
amino acid	amino acid	Br	F	O-acetyl
amino acid	amino acid	Br	F	SH
amino acid	amino acid	Br	F	SMe
amino acid	amino acid	Br	F	SEt
amino acid	amino acid	Br	F	S-cyclopropyl
amino acid	amino acid	Br	F	F
amino acid	amino acid	Br	F	Cl
amino acid	amino acid	Br	F	Br
amino acid	amino acid	Br	F	I
amino acid	H	Br	F	H
amino acid	H	Br	F	NH ₂
amino acid	H	Br	F	NH-cyclopropyl
amino acid	H	Br	F	NH-methyl
amino acid	H	Br	F	NH-ethyl
amino acid	H	Br	F	NH-acetyl
amino acid	H	Br	F	OH
amino acid	H	Br	F	OMe
amino acid	H	Br	F	OEt
amino acid	H	Br	F	O-cyclopropyl
amino acid	H	Br	F	O-acetyl
amino acid	H	Br	F	SH
amino acid	H	Br	F	SMe
amino acid	H	Br	F	SEt
amino acid	H	Br	F	S-cyclopropyl
amino acid	H	Br	F	F
amino acid	H	Br	F	Cl
amino acid	H	Br	F	Br
amino acid	H	Br	F	I
amino acid	acyl	Br	F	H
amino acid	acyl	Br	F	NH ₂
amino acid	acyl	Br	F	NH-cyclopropyl
amino acid	acyl	Br	F	NH-methyl
amino acid	acyl	Br	F	NH-ethyl
amino acid	acyl	Br	F	NH-acetyl
amino acid	acyl	Br	F	OH
amino acid	acyl	Br	F	OMe
amino acid	acyl	Br	F	OEt
amino acid	acyl	Br	F	O-cyclopropyl
amino acid	acyl	Br	F	O-acetyl
amino acid	acyl	Br	F	SH
amino acid	acyl	Br	F	SMe
amino acid	acyl	Br	F	SEt
amino acid	acyl	Br	F	S-cyclopropyl
amino acid	acyl	Br	F	F
amino acid	acyl	Br	F	Cl
amino acid	acyl	Br	F	Br
amino acid	acyl	Br	F	I
acyl	H	Cl	F	H
acyl	H	Cl	F	NH ₂
acyl	H	Cl	F	NH-cyclopropyl
acyl	H	Cl	F	NH-methyl
acyl	H	Cl	F	NH-ethyl
acyl	H	Cl	F	NH-acetyl
acyl	H	Cl	F	OH
acyl	H	Cl	F	OMe
acyl	H	Cl	F	OEt
acyl	H	Cl	F	O-cyclopropyl
acyl	H	Cl	F	O-acetyl

TABLE 1-continued

	R ²	R ³	X ¹	X ²	Y
5	acyl	H	Cl	F	SH
	acyl	H	Cl	F	SMe
	acyl	H	Cl	F	SEt
	acyl	H	Cl	F	S-cyclopropyl
	acyl	H	Cl	F	F
	acyl	H	Cl	F	Cl
10	acyl	H	Cl	F	Br
	acyl	H	Cl	F	I
	acyl	acyl	Cl	F	H
	acyl	acyl	Cl	F	NH ₂
	acyl	acyl	Cl	F	NH-cyclopropyl
	acyl	acyl	Cl	F	NH-methyl
15	acyl	acyl	Cl	F	NH-ethyl
	acyl	acyl	Cl	F	NH-acetyl
	acyl	acyl	Cl	F	OH
	acyl	acyl	Cl	F	OMe
	acyl	acyl	Cl	F	OEt
	acyl	acyl	Cl	F	O-cyclopropyl
	acyl	acyl	Cl	F	O-acetyl
20	acyl	acyl	Cl	F	SH
	acyl	acyl	Cl	F	SMe
	acyl	acyl	Cl	F	SEt
	acyl	acyl	Cl	F	S-cyclopropyl
	acyl	acyl	Cl	F	F
	acyl	acyl	Cl	F	Cl
	acyl	acyl	Cl	F	Br
25	acyl	acyl	Cl	F	I
	acyl	amino acid	Cl	F	H
	acyl	amino acid	Cl	F	NH ₂
	acyl	amino acid	Cl	F	NH-cyclopropyl
	acyl	amino acid	Cl	F	NH-methyl
30	acyl	amino acid	Cl	F	NH-ethyl
	acyl	amino acid	Cl	F	NH-acetyl
	acyl	amino acid	Cl	F	OH
	acyl	amino acid	Cl	F	OMe
	acyl	amino acid	Cl	F	OEt
	acyl	amino acid	Cl	F	O-cyclopropyl
35	acyl	amino acid	Cl	F	O-acetyl
	acyl	amino acid	Cl	F	SH
	acyl	amino acid	Cl	F	SMe
	acyl	amino acid	Cl	F	SEt
	acyl	amino acid	Cl	F	S-cyclopropyl
	acyl	amino acid	Cl	F	F
	acyl	amino acid	Cl	F	Cl
40	acyl	amino acid	Cl	F	Br
	acyl	amino acid	Cl	F	I
	H	acyl	Cl	F	H
	H	acyl	Cl	F	NH ₂
	H	acyl	Cl	F	NH-cyclopropyl
	H	acyl	Cl	F	NH-methyl
45	H	acyl	Cl	F	NH-ethyl
	H	acyl	Cl	F	NH-acetyl
	H	acyl	Cl	F	OH
	H	acyl	Cl	F	OMe
	H	acyl	Cl	F	OEt
	H	acyl	Cl	F	O-cyclopropyl
50	H	acyl	Cl	F	O-acetyl
	H	acyl	Cl	F	SH
	H	acyl	Cl	F	SMe
	H	acyl	Cl	F	SEt
	H	acyl	Cl	F	S-cyclopropyl
	H	acyl	Cl	F	F
	H	acyl	Cl	F	Cl
	H	acyl	Cl	F	Br
	H	acyl	Cl	F	I
55	H	acyl	Cl	F	H
	H	amino acid	Cl	F	NH ₂
	H	amino acid	Cl	F	NH-cyclopropyl
	H	amino acid	Cl	F	NH-methyl
60	H	amino acid	Cl	F	NH-ethyl
	H	amino acid	Cl	F	NH-acetyl
	H	amino acid	Cl	F	OH
	H	amino acid	Cl	F	OMe
	H	amino acid	Cl	F	OEt
	H	amino acid	Cl	F	O-cyclopropyl
65	H	amino acid	Cl	F	O-acetyl
	H	amino acid	Cl	F	SH

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
H	amino acid	Cl	F	SMe
H	amino acid	Cl	F	SEt
H	amino acid	Cl	F	S-cyclopropyl
H	amino acid	Cl	F	F
H	amino acid	Cl	F	Cl
H	amino acid	Cl	F	Br
H	amino acid	Cl	F	I
amino acid	amino acid	Cl	F	H
amino acid	amino acid	Cl	F	NH ₂
amino acid	amino acid	Cl	F	NH-cyclopropyl
amino acid	amino acid	Cl	F	NH-methyl
amino acid	amino acid	Cl	F	NH-ethyl
amino acid	amino acid	Cl	F	NH-acetyl
amino acid	amino acid	Cl	F	OH
amino acid	amino acid	Cl	F	OMe
amino acid	amino acid	Cl	F	OEt
amino acid	amino acid	Cl	F	O-cyclopropyl
amino acid	amino acid	Cl	F	O-acetyl
amino acid	amino acid	Cl	F	SH
amino acid	amino acid	Cl	F	SMe
amino acid	amino acid	Cl	F	SEt
amino acid	amino acid	Cl	F	S-cyclopropyl
amino acid	amino acid	Cl	F	F
amino acid	amino acid	Cl	F	Cl
amino acid	amino acid	Cl	F	Br
amino acid	amino acid	Cl	F	I
amino acid	H	Cl	F	H
amino acid	H	Cl	F	NH ₂
amino acid	H	Cl	F	NH-cyclopropyl
amino acid	H	Cl	F	NH-methyl
amino acid	H	Cl	F	NH-ethyl
amino acid	H	Cl	F	NH-acetyl
amino acid	H	Cl	F	OH
amino acid	H	Cl	F	OMe
amino acid	H	Cl	F	OEt
amino acid	H	Cl	F	O-cyclopropyl
amino acid	H	Cl	F	O-acetyl
amino acid	H	Cl	F	SH
amino acid	H	Cl	F	SMe
amino acid	H	Cl	F	SEt
amino acid	H	Cl	F	S-cyclopropyl
amino acid	H	Cl	F	F
amino acid	H	Cl	F	Cl
amino acid	H	Cl	F	Br
amino acid	H	Cl	F	I
amino acid	acyl	Cl	F	H
amino acid	acyl	Cl	F	NH ₂
amino acid	acyl	Cl	F	NH-cyclopropyl
amino acid	acyl	Cl	F	NH-methyl
amino acid	acyl	Cl	F	NH-ethyl
amino acid	acyl	Cl	F	NH-acetyl
amino acid	acyl	Cl	F	OH
amino acid	acyl	Cl	F	OMe
amino acid	acyl	Cl	F	OEt
amino acid	acyl	Cl	F	O-cyclopropyl
amino acid	acyl	Cl	F	O-acetyl
amino acid	acyl	Cl	F	SH
amino acid	acyl	Cl	F	SMe
amino acid	acyl	Cl	F	SEt
amino acid	acyl	Cl	F	S-cyclopropyl
amino acid	acyl	Cl	F	F
amino acid	acyl	Cl	F	Cl
amino acid	acyl	Cl	F	Br
amino acid	acyl	Cl	F	I
acyl	H	F	F	H
acyl	H	F	F	NH ₂
acyl	H	F	F	NH-cyclopropyl
acyl	H	F	F	NH-methyl
acyl	H	F	F	NH-ethyl
acyl	H	F	F	NH-acetyl
acyl	H	F	F	OH
acyl	H	F	F	OMe
acyl	H	F	F	OEt
acyl	H	F	F	O-cyclopropyl
acyl	H	F	F	O-acetyl
acyl	H	F	F	SH
acyl	H	F	F	SMe
acyl	H	F	F	SEt

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
5	acyl	H	F	SEt
	acyl	H	F	S-cyclopropyl
	acyl	H	F	F
	acyl	H	F	Cl
	acyl	H	F	Br
	acyl	H	F	I
10	acyl	acyl	F	H
	acyl	acyl	F	NH ₂
	acyl	acyl	F	NH-cyclopropyl
	acyl	acyl	F	NH-methyl
	acyl	acyl	F	NH-ethyl
	acyl	acyl	F	NH-acetyl
15	acyl	acyl	F	OH
	acyl	acyl	F	OMe
	acyl	acyl	F	OEt
	acyl	acyl	F	O-cyclopropyl
	acyl	acyl	F	O-acetyl
	acyl	acyl	F	SH
20	acyl	acyl	F	SMe
	acyl	acyl	F	SEt
	acyl	acyl	F	S-cyclopropyl
	acyl	acyl	F	F
	acyl	acyl	F	Cl
	acyl	acyl	F	Br
	acyl	acyl	F	I
25	acyl	amino acid	F	H
	acyl	amino acid	F	NH ₂
	acyl	amino acid	F	NH-cyclopropyl
	acyl	amino acid	F	NH-methyl
	acyl	amino acid	F	NH-ethyl
	acyl	amino acid	F	NH-acetyl
30	acyl	amino acid	F	OH
	acyl	amino acid	F	OMe
	acyl	amino acid	F	OEt
	acyl	amino acid	F	O-cyclopropyl
	acyl	amino acid	F	O-acetyl
	acyl	amino acid	F	SH
35	acyl	amino acid	F	SMe
	acyl	amino acid	F	SEt
	acyl	amino acid	F	S-cyclopropyl
	acyl	amino acid	F	F
	acyl	amino acid	F	Cl
	acyl	amino acid	F	Br
40	acyl	amino acid	F	I
	H	acyl	F	H
	H	acyl	F	NH ₂
	H	acyl	F	NH-cyclopropyl
	H	acyl	F	NH-methyl
	H	acyl	F	NH-ethyl
	H	acyl	F	NH-acetyl
45	H	acyl	F	OH
	H	acyl	F	OMe
	H	acyl	F	OEt
	H	acyl	F	O-cyclopropyl
	H	acyl	F	O-acetyl
	H	acyl	F	SH
50	H	acyl	F	SMe
	H	acyl	F	SEt
	H	acyl	F	S-cyclopropyl
	H	acyl	F	F
	H	acyl	F	Cl
	H	acyl	F	Br
	H	acyl	F	I
55	H	acyl	F	H
	H	amino acid	F	H
	H	amino acid	F	NH ₂
	H	amino acid	F	NH-cyclopropyl
	H	amino acid	F	NH-methyl
	H	amino acid	F	NH-ethyl
	H	amino acid	F	NH-acetyl
60	H	amino acid	F	OH
	H	amino acid	F	OMe
	H	amino acid	F	OEt
	H	amino acid	F	O-cyclopropyl
	H	amino acid	F	O-acetyl
	H	amino acid	F	SH
65	H	amino acid	F	SMe
	H	amino acid	F	SEt

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
H	amino acid	F	F	S-cyclopropyl
H	amino acid	F	F	F
H	amino acid	F	F	Cl
H	amino acid	F	F	Br
H	amino acid	F	F	I
amino acid	amino acid	F	F	H
amino acid	amino acid	F	F	NH ₂
amino acid	amino acid	F	F	NH-cyclopropyl
amino acid	amino acid	F	F	NH-methyl
amino acid	amino acid	F	F	NH-ethyl
amino acid	amino acid	F	F	NH-acetyl
amino acid	amino acid	F	F	OH
amino acid	amino acid	F	F	OMe
amino acid	amino acid	F	F	OEt
amino acid	amino acid	F	F	O-cyclopropyl
amino acid	amino acid	F	F	O-acetyl
amino acid	amino acid	F	F	SH
amino acid	amino acid	F	F	SMe
amino acid	amino acid	F	F	SEt
amino acid	amino acid	F	F	S-cyclopropyl
amino acid	amino acid	F	F	F
amino acid	amino acid	F	F	Cl
amino acid	amino acid	F	F	Br
amino acid	amino acid	F	F	I
amino acid	H	F	F	H
amino acid	H	F	F	NH ₂
amino acid	H	F	F	NH-cyclopropyl
amino acid	H	F	F	NH-methyl
amino acid	H	F	F	NH-ethyl
amino acid	H	F	F	NH-acetyl
amino acid	H	F	F	OH
amino acid	H	F	F	OMe
amino acid	H	F	F	OEt
amino acid	H	F	F	O-cyclopropyl
amino acid	H	F	F	O-acetyl
amino acid	H	F	F	SH
amino acid	H	F	F	SMe
amino acid	H	F	F	SEt
amino acid	H	F	F	S-cyclopropyl
amino acid	H	F	F	F
amino acid	H	F	F	Cl
amino acid	H	F	F	Br
amino acid	H	F	F	I
amino acid	H	F	F	H
amino acid	acyl	F	F	NH ₂
amino acid	acyl	F	F	NH-cyclopropyl
amino acid	acyl	F	F	NH-methyl
amino acid	acyl	F	F	NH-ethyl
amino acid	acyl	F	F	NH-acetyl
amino acid	acyl	F	F	OH
amino acid	acyl	F	F	OMe
amino acid	acyl	F	F	OEt
amino acid	acyl	F	F	O-cyclopropyl
amino acid	acyl	F	F	O-acetyl
amino acid	acyl	F	F	SH
amino acid	acyl	F	F	SMe
amino acid	acyl	F	F	SEt
amino acid	acyl	F	F	S-cyclopropyl
amino acid	acyl	F	F	F
amino acid	acyl	F	F	Cl
amino acid	acyl	F	F	Br
amino acid	acyl	F	F	I
acyl	H	NH ₂	F	H
acyl	H	NH ₂	F	NH ₂
acyl	H	NH ₂	F	NH-cyclopropyl
acyl	H	NH ₂	F	NH-methyl
acyl	H	NH ₂	F	NH-ethyl
acyl	H	NH ₂	F	NH-acetyl
acyl	H	NH ₂	F	OH
acyl	H	NH ₂	F	OMe
acyl	H	NH ₂	F	OEt
acyl	H	NH ₂	F	O-cyclopropyl
acyl	H	NH ₂	F	O-acetyl
acyl	H	NH ₂	F	SH
acyl	H	NH ₂	F	SMe
acyl	H	NH ₂	F	SEt
acyl	H	NH ₂	F	S-cyclopropyl
acyl	H	NH ₂	F	F

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
5	acyl	H	NH ₂	F
	acyl	H	NH ₂	Cl
	acyl	H	NH ₂	Br
	acyl	H	NH ₂	I
	acyl	acyl	NH ₂	H
	acyl	acyl	NH ₂	NH ₂
10	acyl	acyl	NH ₂	NH-cyclopropyl
	acyl	acyl	NH ₂	NH-methyl
	acyl	acyl	NH ₂	NH-ethyl
	acyl	acyl	NH ₂	NH-acetyl
	acyl	acyl	NH ₂	OH
	acyl	acyl	NH ₂	OMe
15	acyl	acyl	NH ₂	OEt
	acyl	acyl	NH ₂	O-cyclopropyl
	acyl	acyl	NH ₂	O-acetyl
	acyl	acyl	NH ₂	SH
	acyl	acyl	NH ₂	SMe
	acyl	acyl	NH ₂	SEt
	acyl	acyl	NH ₂	S-cyclopropyl
20	acyl	acyl	NH ₂	F
	acyl	acyl	NH ₂	Cl
	acyl	acyl	NH ₂	Br
	acyl	acyl	NH ₂	I
	acyl	amino acid	NH ₂	H
	acyl	amino acid	NH ₂	NH ₂
25	acyl	amino acid	NH ₂	NH-cyclopropyl
	acyl	amino acid	NH ₂	NH-methyl
	acyl	amino acid	NH ₂	NH-ethyl
	acyl	amino acid	NH ₂	NH-acetyl
	acyl	amino acid	NH ₂	OH
	acyl	amino acid	NH ₂	OMe
	acyl	amino acid	NH ₂	OEt
	acyl	amino acid	NH ₂	O-cyclopropyl
	acyl	amino acid	NH ₂	O-acetyl
	acyl	amino acid	NH ₂	SH
	acyl	amino acid	NH ₂	SMe
	acyl	amino acid	NH ₂	SEt
	acyl	amino acid	NH ₂	S-cyclopropyl
35	acyl	amino acid	NH ₂	F
	acyl	amino acid	NH ₂	Cl
	acyl	amino acid	NH ₂	Br
	acyl	amino acid	NH ₂	I
	H	acyl	NH ₂	H
	H	acyl	NH ₂	NH ₂
40	H	acyl	NH ₂	NH-cyclopropyl
	H	acyl	NH ₂	NH-methyl
	H	acyl	NH ₂	NH-ethyl
	H	acyl	NH ₂	NH-acetyl
	H	acyl	NH ₂	OH
	H	acyl	NH ₂	OMe
45	H	acyl	NH ₂	OEt
	H	acyl	NH ₂	O-cyclopropyl
	H	acyl	NH ₂	O-acetyl
	H	acyl	NH ₂	SH
	H	acyl	NH ₂	SMe
	H	acyl	NH ₂	SEt
50	H	acyl	NH ₂	S-cyclopropyl
	H	acyl	NH ₂	F
	H	acyl	NH ₂	Cl
	H	acyl	NH ₂	Br
	H	acyl	NH ₂	I
	H	amino acid	NH ₂	H
	H	amino acid	NH ₂	NH ₂
55	H	amino acid	NH ₂	NH-cyclopropyl
	H	amino acid	NH ₂	NH-methyl
	H	amino acid	NH ₂	NH-ethyl
	H	amino acid	NH ₂	NH-acetyl
	H	amino acid	NH ₂	OH
	H	amino acid	NH ₂	OMe
60	H	amino acid	NH ₂	OEt
	H	amino acid	NH ₂	O-cyclopropyl
	H	amino acid	NH ₂	O-acetyl
	H	amino acid	NH ₂	SH
	H	amino acid	NH ₂	SMe
	H	amino acid	NH ₂	SEt
65	H	amino acid	NH ₂	S-cyclopropyl
	H	amino acid	NH ₂	F

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
H	amino acid	NH ₂	F	Cl
H	amino acid	NH ₂	F	Br
H	amino acid	NH ₂	F	I
amino acid	amino acid	NH ₂	F	H
amino acid	amino acid	NH ₂	F	NH ₂
amino acid	amino acid	NH ₂	F	NH-cyclopropyl
amino acid	amino acid	NH ₂	F	NH-methyl
amino acid	amino acid	NH ₂	F	NH-ethyl
amino acid	amino acid	NH ₂	F	NH-acetyl
amino acid	amino acid	NH ₂	F	OH
amino acid	amino acid	NH ₂	F	OMe
amino acid	amino acid	NH ₂	F	OEt
amino acid	amino acid	NH ₂	F	O-cyclopropyl
amino acid	amino acid	NH ₂	F	O-acetyl
amino acid	amino acid	NH ₂	F	SH
amino acid	amino acid	NH ₂	F	SMe
amino acid	amino acid	NH ₂	F	SEt
amino acid	amino acid	NH ₂	F	S-cyclopropyl
amino acid	amino acid	NH ₂	F	F
amino acid	amino acid	NH ₂	F	Cl
amino acid	amino acid	NH ₂	F	Br
amino acid	amino acid	NH ₂	F	I
amino acid	H	NH ₂	F	H
amino acid	H	NH ₂	F	NH ₂
amino acid	H	NH ₂	F	NH-cyclopropyl
amino acid	H	NH ₂	F	NH-methyl
amino acid	H	NH ₂	F	NH-ethyl
amino acid	H	NH ₂	F	NH-acetyl
amino acid	H	NH ₂	F	OH
amino acid	H	NH ₂	F	OMe
amino acid	H	NH ₂	F	OEt
amino acid	H	NH ₂	F	O-cyclopropyl
amino acid	H	NH ₂	F	O-acetyl
amino acid	H	NH ₂	F	SH
amino acid	H	NH ₂	F	SMe
amino acid	H	NH ₂	F	SEt
amino acid	H	NH ₂	F	S-cyclopropyl
amino acid	H	NH ₂	F	F
amino acid	H	NH ₂	F	Cl
amino acid	H	NH ₂	F	Br
amino acid	H	NH ₂	F	I
amino acid	acyl	NH ₂	F	H
amino acid	acyl	NH ₂	F	NH ₂
amino acid	acyl	NH ₂	F	NH-cyclopropyl
amino acid	acyl	NH ₂	F	NH-methyl
amino acid	acyl	NH ₂	F	NH-ethyl
amino acid	acyl	NH ₂	F	NH-acetyl
amino acid	acyl	NH ₂	F	OH
amino acid	acyl	NH ₂	F	OMe
amino acid	acyl	NH ₂	F	OEt
amino acid	acyl	NH ₂	F	O-cyclopropyl
amino acid	acyl	NH ₂	F	O-acetyl
amino acid	acyl	NH ₂	F	SH
amino acid	acyl	NH ₂	F	SMe
amino acid	acyl	NH ₂	F	SEt
amino acid	acyl	NH ₂	F	S-cyclopropyl
amino acid	acyl	NH ₂	F	F
amino acid	acyl	NH ₂	F	Cl
amino acid	acyl	NH ₂	F	Br
amino acid	acyl	NH ₂	F	I
acyl	H	SH	F	H
acyl	H	SH	F	NH ₂
acyl	H	SH	F	NH-cyclopropyl
acyl	H	SH	F	NH-methyl
acyl	H	SH	F	NH-ethyl
acyl	H	SH	F	NH-acetyl
acyl	H	SH	F	OH
acyl	H	SH	F	OMe
acyl	H	SH	F	OEt
acyl	H	SH	F	O-cyclopropyl
acyl	H	SH	F	O-acetyl
acyl	H	SH	F	SH
acyl	H	SH	F	SMe
acyl	H	SH	F	SEt
acyl	H	SH	F	S-cyclopropyl
acyl	H	SH	F	F
acyl	H	SH	F	Cl

TABLE 1-continued

	R ²	R ³	X ¹	X ²	Y
5	acyl	H	SH	F	Br
	acyl	H	SH	F	I
	acyl	acyl	SH	F	H
	acyl	acyl	SH	F	NH ₂
	acyl	acyl	SH	F	NH-cyclopropyl
	acyl	acyl	SH	F	NH-methyl
10	acyl	acyl	SH	F	NH-ethyl
	acyl	acyl	SH	F	NH-acetyl
	acyl	acyl	SH	F	OH
	acyl	acyl	SH	F	OMe
	acyl	acyl	SH	F	OEt
	acyl	acyl	SH	F	O-cyclopropyl
15	acyl	acyl	SH	F	O-acetyl
	acyl	acyl	SH	F	SH
	acyl	acyl	SH	F	SMe
	acyl	acyl	SH	F	SEt
	acyl	acyl	SH	F	S-cyclopropyl
	acyl	acyl	SH	F	F
20	acyl	acyl	SH	F	Cl
	acyl	acyl	SH	F	Br
	acyl	acyl	SH	F	I
	acyl	amino acid	SH	F	H
	acyl	amino acid	SH	F	NH ₂
	acyl	amino acid	SH	F	NH-cyclopropyl
	acyl	amino acid	SH	F	NH-methyl
25	acyl	amino acid	SH	F	NH-ethyl
	acyl	amino acid	SH	F	NH-acetyl
	acyl	amino acid	SH	F	OH
	acyl	amino acid	SH	F	OMe
	acyl	amino acid	SH	F	OEt
	acyl	amino acid	SH	F	O-cyclopropyl
30	acyl	amino acid	SH	F	O-acetyl
	acyl	amino acid	SH	F	SH
	acyl	amino acid	SH	F	SMe
	acyl	amino acid	SH	F	SEt
	acyl	amino acid	SH	F	S-cyclopropyl
	acyl	amino acid	SH	F	F
35	acyl	amino acid	SH	F	Cl
	acyl	amino acid	SH	F	Br
	acyl	amino acid	SH	F	I
	H	acyl	SH	F	H
	H	acyl	SH	F	NH ₂
	H	acyl	SH	F	NH-cyclopropyl
40	H	acyl	SH	F	NH-methyl
	H	acyl	SH	F	NH-ethyl
	H	acyl	SH	F	NH-acetyl
	H	acyl	SH	F	OH
	H	acyl	SH	F	OMe
	H	acyl	SH	F	OEt
	H	acyl	SH	F	O-cyclopropyl
45	H	acyl	SH	F	O-acetyl
	H	acyl	SH	F	SH
	H	acyl	SH	F	SMe
	H	acyl	SH	F	SEt
	H	acyl	SH	F	S-cyclopropyl
	H	acyl	SH	F	F
50	H	acyl	SH	F	Cl
	H	acyl	SH	F	Br
	H	acyl	SH	F	I
	H	amino acid	SH	F	H
	H	amino acid	SH	F	NH ₂
	H	amino acid	SH	F	NH-cyclopropyl
55	H	amino acid	SH	F	NH-methyl
	H	amino acid	SH	F	NH-ethyl
	H	amino acid	SH	F	NH-acetyl
	H	amino acid	SH	F	OH
	H	amino acid	SH	F	OMe
	H	amino acid	SH	F	OEt
	H	amino acid	SH	F	O-cyclopropyl
60	H	amino acid	SH	F	O-acetyl
	H	amino acid	SH	F	SH
	H	amino acid	SH	F	SMe
	H	amino acid	SH	F	SEt
	H	amino acid	SH	F	S-cyclopropyl
	H	amino acid	SH	F	F
65	H	amino acid	SH	F	Cl
	H	amino acid	SH	F	Br

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
H	amino acid	SH	F	I
amino acid	amino acid	SH	F	H
amino acid	amino acid	SH	F	NH ₂
amino acid	amino acid	SH	F	NH-cyclopropyl
amino acid	amino acid	SH	F	NH-methyl
amino acid	amino acid	SH	F	NH-ethyl
amino acid	amino acid	SH	F	NH-acetyl
amino acid	amino acid	SH	F	OH
amino acid	amino acid	SH	F	OMe
amino acid	amino acid	SH	F	OEt
amino acid	amino acid	SH	F	O-cyclopropyl
amino acid	amino acid	SH	F	O-acetyl
amino acid	amino acid	SH	F	SH
amino acid	amino acid	SH	F	SMe
amino acid	amino acid	SH	F	SEt
amino acid	amino acid	SH	F	S-cyclopropyl
amino acid	amino acid	SH	F	F
amino acid	amino acid	SH	F	Cl
amino acid	amino acid	SH	F	Br
amino acid	amino acid	SH	F	I
amino acid	H	SH	F	H
amino acid	H	SH	F	NH ₂
amino acid	H	SH	F	NH-cyclopropyl
amino acid	H	SH	F	NH-methyl
amino acid	H	SH	F	NH-ethyl
amino acid	H	SH	F	NH-acetyl
amino acid	H	SH	F	OH
amino acid	H	SH	F	OMe
amino acid	H	SH	F	OEt
amino acid	H	SH	F	O-cyclopropyl
amino acid	H	SH	F	O-acetyl
amino acid	H	SH	F	SH
amino acid	H	SH	F	SMe
amino acid	H	SH	F	SEt
amino acid	H	SH	F	S-cyclopropyl
amino acid	H	SH	F	F
amino acid	H	SH	F	Cl
amino acid	H	SH	F	Br
amino acid	H	SH	F	I
amino acid	acyl	SH	F	H
amino acid	acyl	SH	F	NH ₂
amino acid	acyl	SH	F	NH-cyclopropyl
amino acid	acyl	SH	F	NH-methyl
amino acid	acyl	SH	F	NH-ethyl
amino acid	acyl	SH	F	NH-acetyl
amino acid	acyl	SH	F	OH
amino acid	acyl	SH	F	OMe
amino acid	acyl	SH	F	OEt
amino acid	acyl	SH	F	O-cyclopropyl
amino acid	acyl	SH	F	O-acetyl
amino acid	acyl	SH	F	SH
amino acid	acyl	SH	F	SMe
amino acid	acyl	SH	F	SEt
amino acid	acyl	SH	F	S-cyclopropyl
amino acid	acyl	SH	F	F
amino acid	acyl	SH	F	Cl
amino acid	acyl	SH	F	Br
amino acid	acyl	SH	F	I
acyl	H	OH	F	H
acyl	H	OH	F	NH ₂
acyl	H	OH	F	NH-cyclopropyl
acyl	H	OH	F	NH-methyl
acyl	H	OH	F	NH-ethyl
acyl	H	OH	F	NH-acetyl
acyl	H	OH	F	OH
acyl	H	OH	F	OMe
acyl	H	OH	F	OEt
acyl	H	OH	F	O-cyclopropyl
acyl	H	OH	F	O-acetyl
acyl	H	OH	F	SH
acyl	H	OH	F	SMe
acyl	H	OH	F	SEt
acyl	H	OH	F	S-cyclopropyl
acyl	H	OH	F	F
acyl	H	OH	F	Cl
acyl	H	OH	F	Br
acyl	H	OH	F	I

TABLE 1-continued

	R ²	R ³	X ¹	X ²	Y
5	acyl	acyl	OH	F	H
	acyl	acyl	OH	F	NH ₂
	acyl	acyl	OH	F	NH-cyclopropyl
	acyl	acyl	OH	F	NH-methyl
	acyl	acyl	OH	F	NH-ethyl
	acyl	acyl	OH	F	NH-acetyl
10	acyl	acyl	OH	F	OH
	acyl	acyl	OH	F	OMe
	acyl	acyl	OH	F	OEt
	acyl	acyl	OH	F	O-cyclopropyl
	acyl	acyl	OH	F	O-acetyl
	acyl	acyl	OH	F	SH
15	acyl	acyl	OH	F	SMe
	acyl	acyl	OH	F	SEt
	acyl	acyl	OH	F	S-cyclopropyl
	acyl	acyl	OH	F	F
	acyl	acyl	OH	F	Cl
	acyl	acyl	OH	F	Br
20	acyl	acyl	OH	F	I
	acyl	acyl	OH	F	H
	acyl	amino acid	OH	F	NH ₂
	acyl	amino acid	OH	F	NH-cyclopropyl
	acyl	amino acid	OH	F	NH-methyl
	acyl	amino acid	OH	F	NH-ethyl
	acyl	amino acid	OH	F	NH-acetyl
25	acyl	amino acid	OH	F	OH
	acyl	amino acid	OH	F	OMe
	acyl	amino acid	OH	F	OEt
	acyl	amino acid	OH	F	O-cyclopropyl
	acyl	amino acid	OH	F	O-acetyl
	acyl	amino acid	OH	F	SH
30	acyl	amino acid	OH	F	SMe
	acyl	amino acid	OH	F	SEt
	acyl	amino acid	OH	F	S-cyclopropyl
	acyl	amino acid	OH	F	F
	acyl	amino acid	OH	F	Cl
	acyl	amino acid	OH	F	Br
35	acyl	amino acid	OH	F	I
	H	acyl	OH	F	H
	H	acyl	OH	F	NH ₂
	H	acyl	OH	F	NH-cyclopropyl
	H	acyl	OH	F	NH-methyl
	H	acyl	OH	F	NH-ethyl
	H	acyl	OH	F	NH-acetyl
40	H	acyl	OH	F	OH
	H	acyl	OH	F	OMe
	H	acyl	OH	F	OEt
	H	acyl	OH	F	O-cyclopropyl
	H	acyl	OH	F	O-acetyl
	H	acyl	OH	F	SH
45	H	acyl	OH	F	SMe
	H	acyl	OH	F	SEt
	H	acyl	OH	F	S-cyclopropyl
	H	acyl	OH	F	F
	H	acyl	OH	F	Cl
	H	acyl	OH	F	Br
50	H	acyl	OH	F	I
	H	amino acid	OH	F	H
	H	amino acid	OH	F	NH ₂
	H	amino acid	OH	F	NH-cyclopropyl
	H	amino acid	OH	F	NH-methyl
	H	amino acid	OH	F	NH-ethyl
	H	amino acid	OH	F	NH-acetyl
55	H	amino acid	OH	F	OH
	H	amino acid	OH	F	OMe
	H	amino acid	OH	F	OEt
	H	amino acid	OH	F	O-cyclopropyl
	H	amino acid	OH	F	O-acetyl
	H	amino acid	OH	F	SH
60	H	amino acid	OH	F	SMe
	H	amino acid	OH	F	SEt
	H	amino acid	OH	F	S-cyclopropyl
	H	amino acid	OH	F	F
	H	amino acid	OH	F	Cl
	H	amino acid	OH	F	Br
65	H	amino acid	OH	F	I
	amino acid	amino acid	OH	F	H

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
amino acid	amino acid	OH	F	NH ₂
amino acid	amino acid	OH	F	NH-cyclopropyl
amino acid	amino acid	OH	F	NH-methyl
amino acid	amino acid	OH	F	NH-ethyl
amino acid	amino acid	OH	F	NH-acetyl
amino acid	amino acid	OH	F	OH
amino acid	amino acid	OH	F	OMe
amino acid	amino acid	OH	F	OEt
amino acid	amino acid	OH	F	O-cyclopropyl
amino acid	amino acid	OH	F	O-acetyl
amino acid	amino acid	OH	F	SH
amino acid	amino acid	OH	F	SMe
amino acid	amino acid	OH	F	SEt
amino acid	amino acid	OH	F	S-cyclopropyl
amino acid	amino acid	OH	F	F
amino acid	amino acid	OH	F	Cl
amino acid	amino acid	OH	F	Br
amino acid	amino acid	OH	F	I
amino acid	H	OH	F	H
amino acid	H	OH	F	NH ₂
amino acid	H	OH	F	NH-cyclopropyl
amino acid	H	OH	F	NH-methyl
amino acid	H	OH	F	NH-ethyl
amino acid	H	OH	F	NH-acetyl
amino acid	H	OH	F	OH
amino acid	H	OH	F	OMe
amino acid	H	OH	F	OEt
amino acid	H	OH	F	O-cyclopropyl
amino acid	H	OH	F	O-acetyl
amino acid	H	OH	F	SH
amino acid	H	OH	F	SMe
amino acid	H	OH	F	SEt
amino acid	H	OH	F	S-cyclopropyl
amino acid	H	OH	F	F
amino acid	H	OH	F	Cl
amino acid	H	OH	F	Br
amino acid	H	OH	F	I
amino acid	acyl	OH	F	H
amino acid	acyl	OH	F	NH ₂
amino acid	acyl	OH	F	NH-cyclopropyl
amino acid	acyl	OH	F	NH-methyl
amino acid	acyl	OH	F	NH-ethyl
amino acid	acyl	OH	F	NH-acetyl
amino acid	acyl	OH	F	OH
amino acid	acyl	OH	F	OMe
amino acid	acyl	OH	F	OEt
amino acid	acyl	OH	F	O-cyclopropyl
amino acid	acyl	OH	F	O-acetyl
amino acid	acyl	OH	F	SH
amino acid	acyl	OH	F	SMe
amino acid	acyl	OH	F	SEt
amino acid	acyl	OH	F	S-cyclopropyl
amino acid	acyl	OH	F	F
amino acid	acyl	OH	F	Cl
amino acid	acyl	OH	F	Br
amino acid	acyl	OH	F	I
acyl	H	CH ₃	NH ₂	H
acyl	H	CH ₃	NH ₂	NH ₂
acyl	H	CH ₃	NH ₂	NH-cyclopropyl
acyl	H	CH ₃	NH ₂	NH-methyl
acyl	H	CH ₃	NH ₂	NH-ethyl
acyl	H	CH ₃	NH ₂	NH-acetyl
acyl	H	CH ₃	NH ₂	OH
acyl	H	CH ₃	NH ₂	OMe
acyl	H	CH ₃	NH ₂	OEt
acyl	H	CH ₃	NH ₂	O-cyclopropyl
acyl	H	CH ₃	NH ₂	O-acetyl
acyl	H	CH ₃	NH ₂	SH
acyl	H	CH ₃	NH ₂	SMe
acyl	H	CH ₃	NH ₂	SEt
acyl	H	CH ₃	NH ₂	S-cyclopropyl
acyl	H	CH ₃	NH ₂	F
acyl	H	CH ₃	NH ₂	Cl
acyl	H	CH ₃	NH ₂	Br
acyl	H	CH ₃	NH ₂	I
acyl	acyl	CH ₃	NH ₂	H
acyl	acyl	CH ₃	NH ₂	NH ₂

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
5	acyl	acyl	CH ₃	NH ₂
	acyl	acyl	CH ₃	NH-cyclopropyl
	acyl	acyl	CH ₃	NH-methyl
	acyl	acyl	CH ₃	NH-ethyl
	acyl	acyl	CH ₃	NH-acetyl
	acyl	acyl	CH ₃	OH
	acyl	acyl	CH ₃	OMe
10	acyl	acyl	CH ₃	OEt
	acyl	acyl	CH ₃	O-cyclopropyl
	acyl	acyl	CH ₃	O-acetyl
	acyl	acyl	CH ₃	SH
	acyl	acyl	CH ₃	SMe
	acyl	acyl	CH ₃	SEt
15	acyl	acyl	CH ₃	S-cyclopropyl
	acyl	acyl	CH ₃	F
	acyl	acyl	CH ₃	Cl
	acyl	acyl	CH ₃	Br
	acyl	acyl	CH ₃	I
	acyl	amino acid	CH ₃	H
	acyl	amino acid	CH ₃	NH ₂
20	acyl	amino acid	CH ₃	NH-cyclopropyl
	acyl	amino acid	CH ₃	NH-methyl
	acyl	amino acid	CH ₃	NH-ethyl
	acyl	amino acid	CH ₃	NH-acetyl
	acyl	amino acid	CH ₃	OH
	acyl	amino acid	CH ₃	OMe
25	acyl	amino acid	CH ₃	OEt
	acyl	amino acid	CH ₃	O-cyclopropyl
	acyl	amino acid	CH ₃	O-acetyl
	acyl	amino acid	CH ₃	SH
	acyl	amino acid	CH ₃	SMe
	acyl	amino acid	CH ₃	SEt
30	acyl	amino acid	CH ₃	S-cyclopropyl
	acyl	amino acid	CH ₃	F
	acyl	amino acid	CH ₃	Cl
	acyl	amino acid	CH ₃	Br
	acyl	amino acid	CH ₃	I
	acyl	H	CH ₃	H
	acyl	H	CH ₃	NH ₂
35	H	acyl	CH ₃	NH-cyclopropyl
	H	acyl	CH ₃	NH-methyl
	H	acyl	CH ₃	NH-ethyl
	H	acyl	CH ₃	NH-acetyl
	H	acyl	CH ₃	OH
	H	acyl	CH ₃	OMe
40	H	acyl	CH ₃	OEt
	H	acyl	CH ₃	O-cyclopropyl
	H	acyl	CH ₃	O-acetyl
	H	acyl	CH ₃	SH
	H	acyl	CH ₃	SMe
	H	acyl	CH ₃	SEt
45	H	acyl	CH ₃	S-cyclopropyl
	H	acyl	CH ₃	F
	H	acyl	CH ₃	Cl
	H	acyl	CH ₃	Br
	H	acyl	CH ₃	I
	H	amino acid	CH ₃	H
	H	amino acid	CH ₃	NH ₂
50	H	amino acid	CH ₃	NH-cyclopropyl
	H	amino acid	CH ₃	NH-methyl
	H	amino acid	CH ₃	NH-ethyl
	H	amino acid	CH ₃	NH-acetyl
	H	amino acid	CH ₃	OH
	H	amino acid	CH ₃	OMe
55	H	amino acid	CH ₃	OEt
	H	amino acid	CH ₃	O-cyclopropyl
	H	amino acid	CH ₃	O-acetyl
	H	amino acid	CH ₃	SH
	H	amino acid	CH ₃	SMe
	H	amino acid	CH ₃	SEt
60	H	amino acid	CH ₃	S-cyclopropyl
	H	amino acid	CH ₃	F
	H	amino acid	CH ₃	Cl
	H	amino acid	CH ₃	Br
	H	amino acid	CH ₃	I
	amino acid	amino acid	CH ₃	H
65	amino acid	amino acid	CH ₃	NH ₂
	amino acid	amino acid	CH ₃	NH-cyclopropyl

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
amino acid	amino acid	CH ₃	NH ₂	NH-methyl
amino acid	amino acid	CH ₃	NH ₂	NH-ethyl
amino acid	amino acid	CH ₃	NH ₂	NH-acetyl
amino acid	amino acid	CH ₃	NH ₂	OH
amino acid	amino acid	CH ₃	NH ₂	OMe
amino acid	amino acid	CH ₃	NH ₂	OEt
amino acid	amino acid	CH ₃	NH ₂	O-cyclopropyl
amino acid	amino acid	CH ₃	NH ₂	O-acetyl
amino acid	amino acid	CH ₃	NH ₂	SH
amino acid	amino acid	CH ₃	NH ₂	SMe
amino acid	amino acid	CH ₃	NH ₂	SEt
amino acid	amino acid	CH ₃	NH ₂	S-cyclopropyl
amino acid	amino acid	CH ₃	NH ₂	F
amino acid	amino acid	CH ₃	NH ₂	Cl
amino acid	amino acid	CH ₃	NH ₂	Br
amino acid	amino acid	CH ₃	NH ₂	I
amino acid	H	CH ₃	NH ₂	H
amino acid	H	CH ₃	NH ₂	NH ₂
amino acid	H	CH ₃	NH ₂	NH-cyclopropyl
amino acid	H	CH ₃	NH ₂	NH-methyl
amino acid	H	CH ₃	NH ₂	NH-ethyl
amino acid	H	CH ₃	NH ₂	NH-acetyl
amino acid	H	CH ₃	NH ₂	OH
amino acid	H	CH ₃	NH ₂	OMe
amino acid	H	CH ₃	NH ₂	OEt
amino acid	H	CH ₃	NH ₂	O-cyclopropyl
amino acid	H	CH ₃	NH ₂	O-acetyl
amino acid	H	CH ₃	NH ₂	SH
amino acid	H	CH ₃	NH ₂	SMe
amino acid	H	CH ₃	NH ₂	SEt
amino acid	H	CH ₃	NH ₂	S-cyclopropyl
amino acid	H	CH ₃	NH ₂	F
amino acid	H	CH ₃	NH ₂	Cl
amino acid	H	CH ₃	NH ₂	Br
amino acid	H	CH ₃	NH ₂	I
amino acid	acyl	CH ₃	NH ₂	H
amino acid	acyl	CH ₃	NH ₂	NH ₂
amino acid	acyl	CH ₃	NH ₂	NH-cyclopropyl
amino acid	acyl	CH ₃	NH ₂	NH-methyl
amino acid	acyl	CH ₃	NH ₂	NH-ethyl
amino acid	acyl	CH ₃	NH ₂	NH-acetyl
amino acid	acyl	CH ₃	NH ₂	OH
amino acid	acyl	CH ₃	NH ₂	OMe
amino acid	acyl	CH ₃	NH ₂	OEt
amino acid	acyl	CH ₃	NH ₂	O-cyclopropyl
amino acid	acyl	CH ₃	NH ₂	O-acetyl
amino acid	acyl	CH ₃	NH ₂	SH
amino acid	acyl	CH ₃	NH ₂	SMe
amino acid	acyl	CH ₃	NH ₂	SEt
amino acid	acyl	CH ₃	NH ₂	S-cyclopropyl
amino acid	acyl	CH ₃	NH ₂	F
amino acid	acyl	CH ₃	NH ₂	Cl
amino acid	acyl	CH ₃	NH ₂	Br
amino acid	acyl	CH ₃	NH ₂	I
acyl	H	CF ₃	NH ₂	H
acyl	H	CF ₃	NH ₂	NH ₂
acyl	H	CF ₃	NH ₂	NH-cyclopropyl
acyl	H	CF ₃	NH ₂	NH-methyl
acyl	H	CF ₃	NH ₂	NH-ethyl
acyl	H	CF ₃	NH ₂	NH-acetyl
acyl	H	CF ₃	NH ₂	OH
acyl	H	CF ₃	NH ₂	OMe
acyl	H	CF ₃	NH ₂	OEt
acyl	H	CF ₃	NH ₂	O-cyclopropyl
acyl	H	CF ₃	NH ₂	O-acetyl
acyl	H	CF ₃	NH ₂	SH
acyl	H	CF ₃	NH ₂	SMe
acyl	H	CF ₃	NH ₂	SEt
acyl	H	CF ₃	NH ₂	S-cyclopropyl
acyl	H	CF ₃	NH ₂	F
acyl	H	CF ₃	NH ₂	Cl
acyl	H	CF ₃	NH ₂	Br
acyl	H	CF ₃	NH ₂	I
acyl	acyl	CF ₃	NH ₂	H
acyl	acyl	CF ₃	NH ₂	NH ₂
acyl	acyl	CF ₃	NH ₂	NH-cyclopropyl
acyl	acyl	CF ₃	NH ₂	NH-methyl

TABLE 1-continued

	R ²	R ³	X ¹	X ²	Y
5	acyl	acyl	CF ₃	NH ₂	NH-ethyl
	acyl	acyl	CF ₃	NH ₂	NH-acetyl
	acyl	acyl	CF ₃	NH ₂	OH
	acyl	acyl	CF ₃	NH ₂	OMe
	acyl	acyl	CF ₃	NH ₂	OEt
10	acyl	acyl	CF ₃	NH ₂	O-cyclopropyl
	acyl	acyl	CF ₃	NH ₂	O-acetyl
	acyl	acyl	CF ₃	NH ₂	SH
	acyl	acyl	CF ₃	NH ₂	SMe
	acyl	acyl	CF ₃	NH ₂	SEt
15	acyl	acyl	CF ₃	NH ₂	S-cyclopropyl
	acyl	acyl	CF ₃	NH ₂	F
	acyl	acyl	CF ₃	NH ₂	Cl
	acyl	acyl	CF ₃	NH ₂	Br
	acyl	acyl	CF ₃	NH ₂	I
20	acyl	amino acid	CF ₃	NH ₂	H
	acyl	amino acid	CF ₃	NH ₂	NH ₂
	acyl	amino acid	CF ₃	NH ₂	NH-cyclopropyl
	acyl	amino acid	CF ₃	NH ₂	NH-methyl
	acyl	amino acid	CF ₃	NH ₂	NH-ethyl
25	acyl	amino acid	CF ₃	NH ₂	NH-acetyl
	acyl	amino acid	CF ₃	NH ₂	OH
	acyl	amino acid	CF ₃	NH ₂	OMe
	acyl	amino acid	CF ₃	NH ₂	OEt
	acyl	amino acid	CF ₃	NH ₂	O-cyclopropyl
30	acyl	amino acid	CF ₃	NH ₂	O-acetyl
	acyl	amino acid	CF ₃	NH ₂	SH
	acyl	amino acid	CF ₃	NH ₂	SMe
	acyl	amino acid	CF ₃	NH ₂	SEt
	acyl	amino acid	CF ₃	NH ₂	S-cyclopropyl
35	acyl	amino acid	CF ₃	NH ₂	F
	acyl	amino acid	CF ₃	NH ₂	Cl
	acyl	amino acid	CF ₃	NH ₂	Br
	acyl	amino acid	CF ₃	NH ₂	I
	H	acyl	CF ₃	NH ₂	H
40	H	acyl	CF ₃	NH ₂	NH ₂
	H	acyl	CF ₃	NH ₂	NH-cyclopropyl
	H	acyl	CF ₃	NH ₂	NH-methyl
	H	acyl	CF ₃	NH ₂	NH-ethyl
	H	acyl	CF ₃	NH ₂	NH-acetyl
45	H	acyl	CF ₃	NH ₂	OH
	H	acyl	CF ₃	NH ₂	OMe
	H	acyl	CF ₃	NH ₂	OEt
	H	acyl	CF ₃	NH ₂	O-cyclopropyl
	H	acyl	CF ₃	NH ₂	O-acetyl
50	H	acyl	CF ₃	NH ₂	SH
	H	acyl	CF ₃	NH ₂	SMe
	H	acyl	CF ₃	NH ₂	SEt
	H	acyl	CF ₃	NH ₂	S-cyclopropyl
	H	acyl	CF ₃	NH ₂	F
55	H	acyl	CF ₃	NH ₂	Cl
	H	acyl	CF ₃	NH ₂	Br
	H	acyl	CF ₃	NH ₂	I
	H	amino acid	CF ₃	NH ₂	H
	H	amino acid	CF ₃	NH ₂	NH ₂
60	H	amino acid	CF ₃	NH ₂	NH-cyclopropyl
	H	amino acid	CF ₃	NH ₂	NH-methyl
	H	amino acid	CF ₃	NH ₂	NH-ethyl
	H	amino acid	CF ₃	NH ₂	NH-acetyl
	H	amino acid	CF ₃	NH ₂	OH
65	H	amino acid	CF ₃	NH ₂	OMe
	H	amino acid	CF ₃	NH ₂	OEt
	H	amino acid	CF ₃	NH ₂	O-cyclopropyl
	H	amino acid	CF ₃	NH ₂	O-acetyl
	H	amino acid	CF ₃	NH ₂	SH
70	H	amino acid	CF ₃	NH ₂	SMe
	H	amino acid	CF ₃	NH ₂	SEt
	H	amino acid	CF ₃	NH ₂	S-cyclopropyl
	H	amino acid	CF ₃	NH ₂	F
	H	amino acid	CF ₃	NH ₂	Cl
75	H	amino acid	CF ₃	NH ₂	Br
	H	amino acid	CF ₃	NH ₂	I
	amino acid	amino acid	CF ₃	NH ₂	H
	amino acid	amino acid	CF ₃	NH ₂	NH ₂
	amino acid	amino acid	CF ₃	NH ₂	NH-cyclopropyl
80	amino acid	amino acid	CF ₃	NH ₂	NH-methyl
	amino acid	amino acid	CF ₃	NH ₂	NH-ethyl

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
amino acid	amino acid	CF ₃	NH ₂	NH-acetyl
amino acid	amino acid	CF ₃	NH ₂	OH
amino acid	amino acid	CF ₃	NH ₂	OMe
amino acid	amino acid	CF ₃	NH ₂	OEt
amino acid	amino acid	CF ₃	NH ₂	O-cyclopropyl
amino acid	amino acid	CF ₃	NH ₂	O-acetyl
amino acid	amino acid	CF ₃	NH ₂	SH
amino acid	amino acid	CF ₃	NH ₂	SMe
amino acid	amino acid	CF ₃	NH ₂	SEt
amino acid	amino acid	CF ₃	NH ₂	S-cyclopropyl
amino acid	amino acid	CF ₃	NH ₂	F
amino acid	amino acid	CF ₃	NH ₂	Cl
amino acid	amino acid	CF ₃	NH ₂	Br
amino acid	amino acid	CF ₃	NH ₂	I
amino acid	H	CF ₃	NH ₂	H
amino acid	H	CF ₃	NH ₂	NH ₂
amino acid	H	CF ₃	NH ₂	NH-cyclopropyl
amino acid	H	CF ₃	NH ₂	NH-methyl
amino acid	H	CF ₃	NH ₂	NH-ethyl
amino acid	H	CF ₃	NH ₂	NH-acetyl
amino acid	H	CF ₃	NH ₂	OH
amino acid	H	CF ₃	NH ₂	OMe
amino acid	H	CF ₃	NH ₂	OEt
amino acid	H	CF ₃	NH ₂	O-cyclopropyl
amino acid	H	CF ₃	NH ₂	O-acetyl
amino acid	H	CF ₃	NH ₂	SH
amino acid	H	CF ₃	NH ₂	SMe
amino acid	H	CF ₃	NH ₂	SEt
amino acid	H	CF ₃	NH ₂	S-cyclopropyl
amino acid	H	CF ₃	NH ₂	F
amino acid	H	CF ₃	NH ₂	Cl
amino acid	H	CF ₃	NH ₂	Br
amino acid	H	CF ₃	NH ₂	I
amino acid	H	CF ₃	NH ₂	H
amino acid	acyl	CF ₃	NH ₂	H
amino acid	acyl	CF ₃	NH ₂	NH ₂
amino acid	acyl	CF ₃	NH ₂	NH-cyclopropyl
amino acid	acyl	CF ₃	NH ₂	NH-methyl
amino acid	acyl	CF ₃	NH ₂	NH-ethyl
amino acid	acyl	CF ₃	NH ₂	NH-acetyl
amino acid	acyl	CF ₃	NH ₂	OH
amino acid	acyl	CF ₃	NH ₂	OMe
amino acid	acyl	CF ₃	NH ₂	OEt
amino acid	acyl	CF ₃	NH ₂	O-cyclopropyl
amino acid	acyl	CF ₃	NH ₂	O-acetyl
amino acid	acyl	CF ₃	NH ₂	SH
amino acid	acyl	CF ₃	NH ₂	SMe
amino acid	acyl	CF ₃	NH ₂	SEt
amino acid	acyl	CF ₃	NH ₂	S-cyclopropyl
amino acid	acyl	CF ₃	NH ₂	F
amino acid	acyl	CF ₃	NH ₂	Cl
amino acid	acyl	CF ₃	NH ₂	Br
amino acid	acyl	CF ₃	NH ₂	I
acyl	H	Br	NH ₂	H
acyl	H	Br	NH ₂	NH ₂
acyl	H	Br	NH ₂	NH-cyclopropyl
acyl	H	Br	NH ₂	NH-methyl
acyl	H	Br	NH ₂	NH-ethyl
acyl	H	Br	NH ₂	NH-acetyl
acyl	H	Br	NH ₂	OH
acyl	H	Br	NH ₂	OMe
acyl	H	Br	NH ₂	OEt
acyl	H	Br	NH ₂	O-cyclopropyl
acyl	H	Br	NH ₂	O-acetyl
acyl	H	Br	NH ₂	SH
acyl	H	Br	NH ₂	SMe
acyl	H	Br	NH ₂	SEt
acyl	H	Br	NH ₂	S-cyclopropyl
acyl	H	Br	NH ₂	F
acyl	H	Br	NH ₂	Cl
acyl	H	Br	NH ₂	Br
acyl	H	Br	NH ₂	I
acyl	acyl	Br	NH ₂	H
acyl	acyl	Br	NH ₂	NH ₂
acyl	acyl	Br	NH ₂	NH-cyclopropyl
acyl	acyl	Br	NH ₂	NH-methyl
acyl	acyl	Br	NH ₂	NH-ethyl
acyl	acyl	Br	NH ₂	NH-acetyl
acyl	acyl	Br	NH ₂	OH

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
5	acyl	acyl	Br	NH ₂
	acyl	acyl	Br	OH
	acyl	acyl	Br	OMe
	acyl	acyl	Br	OEt
	acyl	acyl	Br	O-cyclopropyl
	acyl	acyl	Br	O-acetyl
	acyl	acyl	Br	SH
10	acyl	acyl	Br	SMe
	acyl	acyl	Br	SEt
	acyl	acyl	Br	S-cyclopropyl
	acyl	acyl	Br	F
	acyl	acyl	Br	Cl
	acyl	acyl	Br	Br
15	acyl	acyl	Br	I
	acyl	amino acid	Br	H
	acyl	amino acid	Br	NH ₂
	acyl	amino acid	Br	NH-cyclopropyl
	acyl	amino acid	Br	NH-methyl
	acyl	amino acid	Br	NH-ethyl
	acyl	amino acid	Br	NH-acetyl
20	acyl	amino acid	Br	OH
	acyl	amino acid	Br	OMe
	acyl	amino acid	Br	OEt
	acyl	amino acid	Br	O-cyclopropyl
	acyl	amino acid	Br	O-acetyl
	acyl	amino acid	Br	SH
25	acyl	amino acid	Br	SMe
	acyl	amino acid	Br	SEt
	acyl	amino acid	Br	S-cyclopropyl
	acyl	amino acid	Br	F
	acyl	amino acid	Br	Cl
	acyl	amino acid	Br	Br
30	acyl	amino acid	Br	I
	H	acyl	Br	H
	H	acyl	Br	NH ₂
	H	acyl	Br	NH-cyclopropyl
	H	acyl	Br	NH-methyl
	H	acyl	Br	NH-ethyl
35	H	acyl	Br	NH-acetyl
	H	acyl	Br	OH
	H	acyl	Br	OMe
	H	acyl	Br	OEt
	H	acyl	Br	O-cyclopropyl
	H	acyl	Br	O-acetyl
	H	acyl	Br	SH
40	H	acyl	Br	SMe
	H	acyl	Br	SEt
	H	acyl	Br	S-cyclopropyl
	H	acyl	Br	F
	H	acyl	Br	Cl
	H	acyl	Br	Br
45	H	acyl	Br	I
	H	amino acid	Br	H
	H	amino acid	Br	NH ₂
	H	amino acid	Br	NH-cyclopropyl
	H	amino acid	Br	NH-methyl
	H	amino acid	Br	NH-ethyl
50	H	amino acid	Br	NH-acetyl
	H	amino acid	Br	OH
	H	amino acid	Br	OMe
	H	amino acid	Br	OEt
	H	amino acid	Br	O-cyclopropyl
	H	amino acid	Br	O-acetyl
	H	amino acid	Br	SH
55	H	amino acid	Br	SMe
	H	amino acid	Br	SEt
	H	amino acid	Br	S-cyclopropyl
	H	amino acid	Br	F
	H	amino acid	Br	Cl
	H	amino acid	Br	Br
60	H	amino acid	Br	I
	amino acid	amino acid	Br	H
	amino acid	amino acid	Br	NH ₂
	amino acid	amino acid	Br	NH-cyclopropyl
	amino acid	amino acid	Br	NH-methyl
	amino acid	amino acid	Br	NH-ethyl
65	amino acid	amino acid	Br	NH-acetyl
	amino acid	amino acid	Br	OH

TABLE 1-continued

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TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
amino acid	amino acid	Cl	NH ₂	O-cyclopropyl
amino acid	amino acid	Cl	NH ₂	O-acetyl
amino acid	amino acid	Cl	NH ₂	SH
amino acid	amino acid	Cl	NH ₂	SMe
amino acid	amino acid	Cl	NH ₂	SEt
amino acid	amino acid	Cl	NH ₂	S-cyclopropyl
amino acid	amino acid	Cl	NH ₂	F
amino acid	amino acid	Cl	NH ₂	Cl
amino acid	amino acid	Cl	NH ₂	Br
amino acid	amino acid	Cl	NH ₂	I
amino acid	H	Cl	NH ₂	H
amino acid	H	Cl	NH ₂	NH ₂
amino acid	H	Cl	NH ₂	NH-cyclopropyl
amino acid	H	Cl	NH ₂	NH-methyl
amino acid	H	Cl	NH ₂	NH-ethyl
amino acid	H	Cl	NH ₂	NH-acetyl
amino acid	H	Cl	NH ₂	OH
amino acid	H	Cl	NH ₂	OMe
amino acid	H	Cl	NH ₂	OEt
amino acid	H	Cl	NH ₂	O-cyclopropyl
amino acid	H	Cl	NH ₂	O-acetyl
amino acid	H	Cl	NH ₂	SH
amino acid	H	Cl	NH ₂	SMe
amino acid	H	Cl	NH ₂	SEt
amino acid	H	Cl	NH ₂	S-cyclopropyl
amino acid	H	Cl	NH ₂	F
amino acid	H	Cl	NH ₂	Cl
amino acid	H	Cl	NH ₂	Br
amino acid	H	Cl	NH ₂	I
amino acid	acyl	Cl	NH ₂	H
amino acid	acyl	Cl	NH ₂	NH ₂
amino acid	acyl	Cl	NH ₂	NH-cyclopropyl
amino acid	acyl	Cl	NH ₂	NH-methyl
amino acid	acyl	Cl	NH ₂	NH-ethyl
amino acid	acyl	Cl	NH ₂	NH-acetyl
amino acid	acyl	Cl	NH ₂	OH
amino acid	acyl	Cl	NH ₂	OMe
amino acid	acyl	Cl	NH ₂	OEt
amino acid	acyl	Cl	NH ₂	O-cyclopropyl
amino acid	acyl	Cl	NH ₂	O-acetyl
amino acid	acyl	Cl	NH ₂	SH
amino acid	acyl	Cl	NH ₂	SMe
amino acid	acyl	Cl	NH ₂	SEt
amino acid	acyl	Cl	NH ₂	S-cyclopropyl
amino acid	acyl	Cl	NH ₂	F
amino acid	acyl	Cl	NH ₂	Cl
amino acid	acyl	Cl	NH ₂	Br
amino acid	acyl	Cl	NH ₂	I
acyl	H	F	NH ₂	H
acyl	H	F	NH ₂	NH ₂
acyl	H	F	NH ₂	NH-cyclopropyl
acyl	H	F	NH ₂	NH-methyl
acyl	H	F	NH ₂	NH-ethyl
acyl	H	F	NH ₂	NH-acetyl
acyl	H	F	NH ₂	OH
acyl	H	F	NH ₂	OMe
acyl	H	F	NH ₂	OEt
acyl	H	F	NH ₂	O-cyclopropyl
acyl	H	F	NH ₂	O-acetyl
acyl	H	F	NH ₂	SH
acyl	H	F	NH ₂	SMe
acyl	H	F	NH ₂	SEt
acyl	H	F	NH ₂	S-cyclopropyl
acyl	H	F	NH ₂	F
acyl	H	F	NH ₂	Cl
acyl	H	F	NH ₂	Br
acyl	H	F	NH ₂	I
acyl	acyl	F	NH ₂	H
acyl	acyl	F	NH ₂	NH ₂
acyl	acyl	F	NH ₂	NH-cyclopropyl
acyl	acyl	F	NH ₂	NH-methyl
acyl	acyl	F	NH ₂	NH-ethyl
acyl	acyl	F	NH ₂	NH-acetyl
acyl	acyl	F	NH ₂	OH
acyl	acyl	F	NH ₂	OMe
acyl	acyl	F	NH ₂	OEt
acyl	acyl	F	NH ₂	O-cyclopropyl

TABLE 1-continued

	R ²	R ³	X ¹	X ²	Y
5	acyl	acyl	F	NH ₂	O-acetyl
	acyl	acyl	F	NH ₂	SH
	acyl	acyl	F	NH ₂	SMe
	acyl	acyl	F	NH ₂	SEt
	acyl	acyl	F	NH ₂	S-cyclopropyl
	acyl	acyl	F	NH ₂	F
10	acyl	acyl	F	NH ₂	Cl
	acyl	acyl	F	NH ₂	Br
	acyl	acyl	F	NH ₂	I
	acyl	amino acid	F	NH ₂	H
	acyl	amino acid	F	NH ₂	NH ₂
	acyl	amino acid	F	NH ₂	NH-cyclopropyl
15	acyl	amino acid	F	NH ₂	NH-methyl
	acyl	amino acid	F	NH ₂	NH-ethyl
	acyl	amino acid	F	NH ₂	NH-acetyl
	acyl	amino acid	F	NH ₂	OH
	acyl	amino acid	F	NH ₂	OMe
	acyl	amino acid	F	NH ₂	OEt
20	acyl	amino acid	F	NH ₂	O-cyclopropyl
	acyl	amino acid	F	NH ₂	O-acetyl
	acyl	amino acid	F	NH ₂	SH
	acyl	amino acid	F	NH ₂	SMe
	acyl	amino acid	F	NH ₂	SEt
	acyl	amino acid	F	NH ₂	S-cyclopropyl
25	acyl	amino acid	F	NH ₂	F
	acyl	amino acid	F	NH ₂	Cl
	acyl	amino acid	F	NH ₂	Br
	acyl	amino acid	F	NH ₂	I
	H	acyl	F	NH ₂	H
	H	acyl	F	NH ₂	NH ₂
30	H	acyl	F	NH ₂	NH-cyclopropyl
	H	acyl	F	NH ₂	NH-methyl
	H	acyl	F	NH ₂	NH-ethyl
	H	acyl	F	NH ₂	NH-acetyl
	H	acyl	F	NH ₂	OH
	H	acyl	F	NH ₂	OMe
	H	acyl	F	NH ₂	OEt
35	H	acyl	F	NH ₂	O-cyclopropyl
	H	acyl	F	NH ₂	O-acetyl
	H	acyl	F	NH ₂	SH
	H	acyl	F	NH ₂	SMe
	H	acyl	F	NH ₂	SEt
	H	acyl	F	NH ₂	S-cyclopropyl
40	H	acyl	F	NH ₂	F
	H	acyl	F	NH ₂	Cl
	H	acyl	F	NH ₂	Br
	H	acyl	F	NH ₂	I
	H	amino acid	F	NH ₂	H
	H	amino acid	F	NH ₂	NH ₂
45	H	amino acid	F	NH ₂	NH-cyclopropyl
	H	amino acid	F	NH ₂	NH-methyl
	H	amino acid	F	NH ₂	NH-ethyl
	H	amino acid	F	NH ₂	NH-acetyl
	H	amino acid	F	NH ₂	OH
	H	amino acid	F	NH ₂	OMe
	H	amino acid	F	NH ₂	OEt
50	H	amino acid	F	NH ₂	O-cyclopropyl
	H	amino acid	F	NH ₂	O-acetyl
	H	amino acid	F	NH ₂	SH
	H	amino acid	F	NH ₂	SMe
	H	amino acid	F	NH ₂	SEt
	H	amino acid	F	NH ₂	S-cyclopropyl
55	H	amino acid	F	NH ₂	F
	H	amino acid	F	NH ₂	Cl
	H	amino acid	F	NH ₂	Br
	H	amino acid	F	NH ₂	I
	amino acid	amino acid	F	NH ₂	H
	amino acid	amino acid	F	NH ₂	NH ₂
60	amino acid	amino acid	F	NH ₂	NH-cyclopropyl
	amino acid	amino acid	F	NH ₂	NH-methyl
	amino acid	amino acid	F	NH ₂	NH-ethyl
	amino acid	amino acid	F	NH ₂	NH-acetyl
	amino acid	amino acid	F	NH ₂	OH
	amino acid	amino acid	F	NH ₂	OMe
	amino acid	amino acid	F	NH ₂	OEt
65	amino acid	amino acid	F	NH ₂	O-cyclopropyl
	amino acid	amino acid	F	NH ₂	O-acetyl

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
amino acid	amino acid	F	NH ₂	SH
amino acid	amino acid	F	NH ₂	SMe
amino acid	amino acid	F	NH ₂	SEt
amino acid	amino acid	F	NH ₂	S-cyclopropyl
amino acid	amino acid	F	NH ₂	F
amino acid	amino acid	F	NH ₂	Cl
amino acid	amino acid	F	NH ₂	Br
amino acid	amino acid	F	NH ₂	I
amino acid	H	F	NH ₂	H
amino acid	H	F	NH ₂	NH ₂
amino acid	H	F	NH ₂	NH-cyclopropyl
amino acid	H	F	NH ₂	NH-methyl
amino acid	H	F	NH ₂	NH-ethyl
amino acid	H	F	NH ₂	NH-acetyl
amino acid	H	F	NH ₂	OH
amino acid	H	F	NH ₂	OMe
amino acid	H	F	NH ₂	OEt
amino acid	H	F	NH ₂	O-cyclopropyl
amino acid	H	F	NH ₂	O-acetyl
amino acid	H	F	NH ₂	SH
amino acid	H	F	NH ₂	SMe
amino acid	H	F	NH ₂	SEt
amino acid	H	F	NH ₂	S-cyclopropyl
amino acid	H	F	NH ₂	F
amino acid	H	F	NH ₂	Cl
amino acid	H	F	NH ₂	Br
amino acid	H	F	NH ₂	I
amino acid	H	F	NH ₂	H
amino acid	acyl	F	NH ₂	H
amino acid	acyl	F	NH ₂	NH ₂
amino acid	acyl	F	NH ₂	NH-cyclopropyl
amino acid	acyl	F	NH ₂	NH-methyl
amino acid	acyl	F	NH ₂	NH-ethyl
amino acid	acyl	F	NH ₂	NH-acetyl
amino acid	acyl	F	NH ₂	OH
amino acid	acyl	F	NH ₂	OMe
amino acid	acyl	F	NH ₂	OEt
amino acid	acyl	F	NH ₂	O-cyclopropyl
amino acid	acyl	F	NH ₂	O-acetyl
amino acid	acyl	F	NH ₂	SH
amino acid	acyl	F	NH ₂	SMe
amino acid	acyl	F	NH ₂	SEt
amino acid	acyl	F	NH ₂	S-cyclopropyl
amino acid	acyl	F	NH ₂	F
amino acid	acyl	F	NH ₂	Cl
amino acid	acyl	F	NH ₂	Br
amino acid	acyl	F	NH ₂	I
acyl	H	NH ₂	NH ₂	H
acyl	H	NH ₂	NH ₂	NH ₂
acyl	H	NH ₂	NH ₂	NH-cyclopropyl
acyl	H	NH ₂	NH ₂	NH-methyl
acyl	H	NH ₂	NH ₂	NH-ethyl
acyl	H	NH ₂	NH ₂	NH-acetyl
acyl	H	NH ₂	NH ₂	OH
acyl	H	NH ₂	NH ₂	OMe
acyl	H	NH ₂	NH ₂	OEt
acyl	H	NH ₂	NH ₂	O-cyclopropyl
acyl	H	NH ₂	NH ₂	O-acetyl
acyl	H	NH ₂	NH ₂	SH
acyl	H	NH ₂	NH ₂	SMe
acyl	H	NH ₂	NH ₂	SEt
acyl	H	NH ₂	NH ₂	S-cyclopropyl
acyl	H	NH ₂	NH ₂	F
acyl	H	NH ₂	NH ₂	Cl
acyl	H	NH ₂	NH ₂	Br
acyl	H	NH ₂	NH ₂	I
acyl	H	NH ₂	NH ₂	H
acyl	acyl	NH ₂	NH ₂	H
acyl	acyl	NH ₂	NH ₂	NH ₂
acyl	acyl	NH ₂	NH ₂	NH-cyclopropyl
acyl	acyl	NH ₂	NH ₂	NH-methyl
acyl	acyl	NH ₂	NH ₂	NH-ethyl
acyl	acyl	NH ₂	NH ₂	NH-acetyl
acyl	acyl	NH ₂	NH ₂	OH
acyl	acyl	NH ₂	NH ₂	OMe
acyl	acyl	NH ₂	NH ₂	OEt
acyl	acyl	NH ₂	NH ₂	O-cyclopropyl
acyl	acyl	NH ₂	NH ₂	O-acetyl
acyl	acyl	NH ₂	NH ₂	SH
acyl	acyl	NH ₂	NH ₂	SMe

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
5	acyl	acyl	NH ₂	SMe
	acyl	acyl	NH ₂	SEt
	acyl	acyl	NH ₂	S-cyclopropyl
	acyl	acyl	NH ₂	F
	acyl	acyl	NH ₂	Cl
	acyl	acyl	NH ₂	Br
10	acyl	acyl	NH ₂	I
	acyl	amino acid	NH ₂	H
	acyl	amino acid	NH ₂	NH ₂
	acyl	amino acid	NH ₂	NH-cyclopropyl
	acyl	amino acid	NH ₂	NH-methyl
	acyl	amino acid	NH ₂	NH-ethyl
15	acyl	amino acid	NH ₂	NH-acetyl
	acyl	amino acid	NH ₂	OH
	acyl	amino acid	NH ₂	OMe
	acyl	amino acid	NH ₂	OEt
	acyl	amino acid	NH ₂	O-cyclopropyl
	acyl	amino acid	NH ₂	O-acetyl
	acyl	amino acid	NH ₂	SH
20	acyl	amino acid	NH ₂	SMe
	acyl	amino acid	NH ₂	SEt
	acyl	amino acid	NH ₂	S-cyclopropyl
	acyl	amino acid	NH ₂	F
	acyl	amino acid	NH ₂	Cl
	acyl	amino acid	NH ₂	Br
25	acyl	amino acid	NH ₂	I
	H	acyl	NH ₂	H
	H	acyl	NH ₂	NH ₂
	H	acyl	NH ₂	NH-cyclopropyl
	H	acyl	NH ₂	NH-methyl
	H	acyl	NH ₂	NH-ethyl
30	H	acyl	NH ₂	NH-acetyl
	H	acyl	NH ₂	OH
	H	acyl	NH ₂	OMe
	H	acyl	NH ₂	OEt
	H	acyl	NH ₂	O-cyclopropyl
	H	acyl	NH ₂	O-acetyl
35	H	acyl	NH ₂	SH
	H	acyl	NH ₂	SMe
	H	acyl	NH ₂	SEt
	H	acyl	NH ₂	S-cyclopropyl
	H	acyl	NH ₂	F
	H	acyl	NH ₂	Cl
	H	acyl	NH ₂	Br
40	H	acyl	NH ₂	I
	H	amino acid	NH ₂	H
	H	amino acid	NH ₂	NH ₂
	H	amino acid	NH ₂	NH-cyclopropyl
	H	amino acid	NH ₂	NH-methyl
	H	amino acid	NH ₂	NH-ethyl
45	H	amino acid	NH ₂	NH-acetyl
	H	amino acid	NH ₂	OH
	H	amino acid	NH ₂	OMe
	H	amino acid	NH ₂	OEt
	H	amino acid	NH ₂	O-cyclopropyl
	H	amino acid	NH ₂	O-acetyl
50	H	amino acid	NH ₂	SH
	H	amino acid	NH ₂	SMe
	H	amino acid	NH ₂	SEt
	H	amino acid	NH ₂	S-cyclopropyl
	H	amino acid	NH ₂	F
	H	amino acid	NH ₂	Cl
	H	amino acid	NH ₂	Br
55	H	amino acid	NH ₂	I
	H	amino acid	NH ₂	H
	amino acid	amino acid	NH ₂	NH ₂
	amino acid	amino acid	NH ₂	NH-cyclopropyl
	amino acid	amino acid	NH ₂	NH-methyl
	amino acid	amino acid	NH ₂	NH-ethyl
60	amino acid	amino acid	NH ₂	NH-acetyl
	amino acid	amino acid	NH ₂	OH
	amino acid	amino acid	NH ₂	OMe
	amino acid	amino acid	NH ₂	OEt
	amino acid	amino acid	NH ₂	O-cyclopropyl
	amino acid	amino acid	NH ₂	O-acetyl
65	amino acid	amino acid	NH ₂	SH
	amino acid	amino acid	NH ₂	SMe

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
amino acid	amino acid	NH ₂	NH ₂	SEt
amino acid	amino acid	NH ₂	NH ₂	S-cyclopropyl
amino acid	amino acid	NH ₂	NH ₂	F
amino acid	amino acid	NH ₂	NH ₂	Cl
amino acid	amino acid	NH ₂	NH ₂	Br
amino acid	amino acid	NH ₂	NH ₂	I
amino acid	H	NH ₂	NH ₂	H
amino acid	H	NH ₂	NH ₂	NH ₂
amino acid	H	NH ₂	NH ₂	NH-cyclopropyl
amino acid	H	NH ₂	NH ₂	NH-methyl
amino acid	H	NH ₂	NH ₂	NH-ethyl
amino acid	H	NH ₂	NH ₂	NH-acetyl
amino acid	H	NH ₂	NH ₂	OH
amino acid	H	NH ₂	NH ₂	OMe
amino acid	H	NH ₂	NH ₂	OEt
amino acid	H	NH ₂	NH ₂	O-cyclopropyl
amino acid	H	NH ₂	NH ₂	O-acetyl
amino acid	H	NH ₂	NH ₂	SH
amino acid	H	NH ₂	NH ₂	SMe
amino acid	H	NH ₂	NH ₂	SEt
amino acid	H	NH ₂	NH ₂	S-cyclopropyl
amino acid	H	NH ₂	NH ₂	F
amino acid	H	NH ₂	NH ₂	Cl
amino acid	H	NH ₂	NH ₂	Br
amino acid	H	NH ₂	NH ₂	I
amino acid	H	NH ₂	NH ₂	H
amino acid	acyl	NH ₂	NH ₂	H
amino acid	acyl	NH ₂	NH ₂	NH ₂
amino acid	acyl	NH ₂	NH ₂	NH-cyclopropyl
amino acid	acyl	NH ₂	NH ₂	NH-methyl
amino acid	acyl	NH ₂	NH ₂	NH-ethyl
amino acid	acyl	NH ₂	NH ₂	NH-acetyl
amino acid	acyl	NH ₂	NH ₂	OH
amino acid	acyl	NH ₂	NH ₂	OMe
amino acid	acyl	NH ₂	NH ₂	OEt
amino acid	acyl	NH ₂	NH ₂	O-cyclopropyl
amino acid	acyl	NH ₂	NH ₂	O-acetyl
amino acid	acyl	NH ₂	NH ₂	SH
amino acid	acyl	NH ₂	NH ₂	SMe
amino acid	acyl	NH ₂	NH ₂	SEt
amino acid	acyl	NH ₂	NH ₂	S-cyclopropyl
amino acid	acyl	NH ₂	NH ₂	F
amino acid	acyl	NH ₂	NH ₂	Cl
amino acid	acyl	NH ₂	NH ₂	Br
amino acid	acyl	NH ₂	NH ₂	I
amino acid	acyl	NH ₂	NH ₂	H
acyl	H	SH	NH ₂	NH ₂
acyl	H	SH	NH ₂	NH-cyclopropyl
acyl	H	SH	NH ₂	NH-methyl
acyl	H	SH	NH ₂	NH-ethyl
acyl	H	SH	NH ₂	NH-acetyl
acyl	H	SH	NH ₂	OH
acyl	H	SH	NH ₂	OMe
acyl	H	SH	NH ₂	OEt
acyl	H	SH	NH ₂	O-cyclopropyl
acyl	H	SH	NH ₂	O-acetyl
acyl	H	SH	NH ₂	SH
acyl	H	SH	NH ₂	SMe
acyl	H	SH	NH ₂	SEt
acyl	H	SH	NH ₂	S-cyclopropyl
acyl	H	SH	NH ₂	F
acyl	H	SH	NH ₂	Cl
acyl	H	SH	NH ₂	Br
acyl	H	SH	NH ₂	I
acyl	acyl	SH	NH ₂	H
acyl	acyl	SH	NH ₂	NH ₂
acyl	acyl	SH	NH ₂	NH-cyclopropyl
acyl	acyl	SH	NH ₂	NH-methyl
acyl	acyl	SH	NH ₂	NH-ethyl
acyl	acyl	SH	NH ₂	NH-acetyl
acyl	acyl	SH	NH ₂	OH
acyl	acyl	SH	NH ₂	OMe
acyl	acyl	SH	NH ₂	OEt
acyl	acyl	SH	NH ₂	O-cyclopropyl
acyl	acyl	SH	NH ₂	O-acetyl
acyl	acyl	SH	NH ₂	SH
acyl	acyl	SH	NH ₂	SMe
acyl	acyl	SH	NH ₂	SEt
acyl	acyl	SH	NH ₂	S-cyclopropyl

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
5	acyl	acyl	SH	NH ₂ S-cyclopropyl
	acyl	acyl	SH	NH ₂ F
	acyl	acyl	SH	NH ₂ Cl
	acyl	acyl	SH	NH ₂ Br
	acyl	acyl	SH	NH ₂ I
	acyl	amino acid	SH	NH ₂ H
10	acyl	amino acid	SH	NH ₂ NH ₂
	acyl	amino acid	SH	NH ₂ NH-cyclopropyl
	acyl	amino acid	SH	NH ₂ NH-methyl
	acyl	amino acid	SH	NH ₂ NH-ethyl
	acyl	amino acid	SH	NH ₂ NH-acetyl
	acyl	amino acid	SH	NH ₂ OH
15	acyl	amino acid	SH	NH ₂ OMe
	acyl	amino acid	SH	NH ₂ OEt
	acyl	amino acid	SH	NH ₂ O-cyclopropyl
	acyl	amino acid	SH	NH ₂ O-acetyl
	acyl	amino acid	SH	NH ₂ SH
	acyl	amino acid	SH	NH ₂ SMe
	acyl	amino acid	SH	NH ₂ SEt
20	acyl	amino acid	SH	NH ₂ S-cyclopropyl
	acyl	amino acid	SH	NH ₂ F
	acyl	amino acid	SH	NH ₂ Cl
	acyl	amino acid	SH	NH ₂ Br
	acyl	amino acid	SH	NH ₂ I
	H	acyl	SH	NH ₂ H
25	H	acyl	SH	NH ₂ NH ₂
	H	acyl	SH	NH ₂ NH-cyclopropyl
	H	acyl	SH	NH ₂ NH-methyl
	H	acyl	SH	NH ₂ NH-ethyl
	H	acyl	SH	NH ₂ NH-acetyl
	H	acyl	SH	NH ₂ OH
30	H	acyl	SH	NH ₂ OMe
	H	acyl	SH	NH ₂ OEt
	H	acyl	SH	NH ₂ O-cyclopropyl
	H	acyl	SH	NH ₂ O-acetyl
	H	acyl	SH	NH ₂ SH
	H	acyl	SH	NH ₂ SMe
35	H	acyl	SH	NH ₂ SEt
	H	acyl	SH	NH ₂ S-cyclopropyl
	H	acyl	SH	NH ₂ F
	H	acyl	SH	NH ₂ Cl
	H	acyl	SH	NH ₂ Br
	H	acyl	SH	NH ₂ I
40	H	amino acid	SH	NH ₂ H
	H	amino acid	SH	NH ₂ NH ₂
	H	amino acid	SH	NH ₂ NH-cyclopropyl
	H	amino acid	SH	NH ₂ NH-methyl
	H	amino acid	SH	NH ₂ NH-ethyl
	H	amino acid	SH	NH ₂ NH-acetyl
	H	amino acid	SH	NH ₂ OH
45	H	amino acid	SH	NH ₂ OMe
	H	amino acid	SH	NH ₂ OEt
	H	amino acid	SH	NH ₂ O-cyclopropyl
	H	amino acid	SH	NH ₂ O-acetyl
	H	amino acid	SH	NH ₂ SH
	H	amino acid	SH	NH ₂ SMe
50	H	amino acid	SH	NH ₂ SEt
	H	amino acid	SH	NH ₂ S-cyclopropyl
	H	amino acid	SH	NH ₂ F
	H	amino acid	SH	NH ₂ Cl
	H	amino acid	SH	NH ₂ Br
	H	amino acid	SH	NH ₂ I
55	amino acid	amino acid	SH	NH ₂ H
	amino acid	amino acid	SH	NH ₂ NH ₂
	amino acid	amino acid	SH	NH ₂ NH-cyclopropyl
	amino acid	amino acid	SH	NH ₂ NH-methyl
	amino acid	amino acid	SH	NH ₂ NH-ethyl
	amino acid	amino acid	SH	NH ₂ NH-acetyl
	amino acid	amino acid	SH	NH ₂ OH
60	amino acid	amino acid	SH	NH ₂ OMe
	amino acid	amino acid	SH	NH ₂ OEt
	amino acid	amino acid	SH	NH ₂ O-cyclopropyl
	amino acid	amino acid	SH	NH ₂ O-acetyl
	amino acid	amino acid	SH	NH ₂ SH
	amino acid	amino acid	SH	NH ₂ SMe
65	amino acid	amino acid	SH	NH ₂ SEt
	amino acid	amino acid	SH	NH ₂ S-cyclopropyl

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
amino acid	amino acid	SH	NH ₂	F
amino acid	amino acid	SH	NH ₂	Cl
amino acid	amino acid	SH	NH ₂	Br
amino acid	amino acid	SH	NH ₂	I
amino acid	H	SH	NH ₂	H
amino acid	H	SH	NH ₂	NH ₂
amino acid	H	SH	NH ₂	NH-cyclopropyl
amino acid	H	SH	NH ₂	NH-methyl
amino acid	H	SH	NH ₂	NH-ethyl
amino acid	H	SH	NH ₂	NH-acetyl
amino acid	H	SH	NH ₂	OH
amino acid	H	SH	NH ₂	OMe
amino acid	H	SH	NH ₂	OEt
amino acid	H	SH	NH ₂	O-cyclopropyl
amino acid	H	SH	NH ₂	O-acetyl
amino acid	H	SH	NH ₂	SH
amino acid	H	SH	NH ₂	SMe
amino acid	H	SH	NH ₂	SEt
amino acid	H	SH	NH ₂	S-cyclopropyl
amino acid	H	SH	NH ₂	F
amino acid	H	SH	NH ₂	Cl
amino acid	H	SH	NH ₂	Br
amino acid	H	SH	NH ₂	I
amino acid	acyl	SH	NH ₂	H
amino acid	acyl	SH	NH ₂	NH ₂
amino acid	acyl	SH	NH ₂	NH-cyclopropyl
amino acid	acyl	SH	NH ₂	NH-methyl
amino acid	acyl	SH	NH ₂	NH-ethyl
amino acid	acyl	SH	NH ₂	NH-acetyl
amino acid	acyl	SH	NH ₂	OH
amino acid	acyl	SH	NH ₂	OMe
amino acid	acyl	SH	NH ₂	OEt
amino acid	acyl	SH	NH ₂	O-cyclopropyl
amino acid	acyl	SH	NH ₂	O-acetyl
amino acid	acyl	SH	NH ₂	SH
amino acid	acyl	SH	NH ₂	SMe
amino acid	acyl	SH	NH ₂	SEt
amino acid	acyl	SH	NH ₂	S-cyclopropyl
amino acid	acyl	SH	NH ₂	F
amino acid	acyl	SH	NH ₂	Cl
amino acid	acyl	SH	NH ₂	Br
amino acid	acyl	SH	NH ₂	I
acyl	H	OH	NH ₂	H
acyl	H	OH	NH ₂	NH ₂
acyl	H	OH	NH ₂	NH-cyclopropyl
acyl	H	OH	NH ₂	NH-methyl
acyl	H	OH	NH ₂	NH-ethyl
acyl	H	OH	NH ₂	NH-acetyl
acyl	H	OH	NH ₂	OH
acyl	H	OH	NH ₂	OMe
acyl	H	OH	NH ₂	OEt
acyl	H	OH	NH ₂	O-cyclopropyl
acyl	H	OH	NH ₂	O-acetyl
acyl	H	OH	NH ₂	SH
acyl	H	OH	NH ₂	SMe
acyl	H	OH	NH ₂	SEt
acyl	H	OH	NH ₂	S-cyclopropyl
acyl	H	OH	NH ₂	F
acyl	H	OH	NH ₂	Cl
acyl	H	OH	NH ₂	Br
acyl	H	OH	NH ₂	I
acyl	acyl	OH	NH ₂	H
acyl	acyl	OH	NH ₂	NH ₂
acyl	acyl	OH	NH ₂	NH-cyclopropyl
acyl	acyl	OH	NH ₂	NH-methyl
acyl	acyl	OH	NH ₂	NH-ethyl
acyl	acyl	OH	NH ₂	NH-acetyl
acyl	acyl	OH	NH ₂	OH
acyl	acyl	OH	NH ₂	OMe
acyl	acyl	OH	NH ₂	OEt
acyl	acyl	OH	NH ₂	O-cyclopropyl
acyl	acyl	OH	NH ₂	O-acetyl
acyl	acyl	OH	NH ₂	SH
acyl	acyl	OH	NH ₂	SMe
acyl	acyl	OH	NH ₂	SEt
acyl	acyl	OH	NH ₂	S-cyclopropyl
acyl	acyl	OH	NH ₂	F

TABLE 1-continued

	R ²	R ³	X ¹	X ²	Y
5	acyl	acyl	OH	NH ₂	Cl
	acyl	acyl	OH	NH ₂	Br
	acyl	acyl	OH	NH ₂	I
	acyl	amino acid	OH	NH ₂	H
	acyl	amino acid	OH	NH ₂	NH ₂
	acyl	amino acid	OH	NH ₂	NH-cyclopropyl
10	acyl	amino acid	OH	NH ₂	NH-methyl
	acyl	amino acid	OH	NH ₂	NH-ethyl
	acyl	amino acid	OH	NH ₂	NH-acetyl
	acyl	amino acid	OH	NH ₂	OH
	acyl	amino acid	OH	NH ₂	OMe
	acyl	amino acid	OH	NH ₂	OEt
15	acyl	amino acid	OH	NH ₂	O-cyclopropyl
	acyl	amino acid	OH	NH ₂	O-acetyl
	acyl	amino acid	OH	NH ₂	SH
	acyl	amino acid	OH	NH ₂	SMe
	acyl	amino acid	OH	NH ₂	SEt
	acyl	amino acid	OH	NH ₂	S-cyclopropyl
20	acyl	amino acid	OH	NH ₂	F
	acyl	amino acid	OH	NH ₂	Cl
	acyl	amino acid	OH	NH ₂	Br
	acyl	amino acid	OH	NH ₂	I
	H	acyl	OH	NH ₂	H
	H	acyl	OH	NH ₂	NH ₂
25	H	acyl	OH	NH ₂	NH-cyclopropyl
	H	acyl	OH	NH ₂	NH-methyl
	H	acyl	OH	NH ₂	NH-ethyl
	H	acyl	OH	NH ₂	NH-acetyl
	H	acyl	OH	NH ₂	OH
	H	acyl	OH	NH ₂	OMe
	H	acyl	OH	NH ₂	OEt
30	H	acyl	OH	NH ₂	O-cyclopropyl
	H	acyl	OH	NH ₂	O-acetyl
	H	acyl	OH	NH ₂	SH
	H	acyl	OH	NH ₂	SMe
	H	acyl	OH	NH ₂	SEt
	H	acyl	OH	NH ₂	S-cyclopropyl
35	H	acyl	OH	NH ₂	F
	H	acyl	OH	NH ₂	Cl
	H	acyl	OH	NH ₂	Br
	H	acyl	OH	NH ₂	I
	H	amino acid	OH	NH ₂	H
	H	amino acid	OH	NH ₂	NH ₂
40	H	amino acid	OH	NH ₂	NH-cyclopropyl
	H	amino acid	OH	NH ₂	NH-methyl
	H	amino acid	OH	NH ₂	NH-ethyl
	H	amino acid	OH	NH ₂	NH-acetyl
	H	amino acid	OH	NH ₂	OH
	H	amino acid	OH	NH ₂	OMe
	H	amino acid	OH	NH ₂	OEt
45	H	amino acid	OH	NH ₂	O-cyclopropyl
	H	amino acid	OH	NH ₂	O-acetyl
	H	amino acid	OH	NH ₂	SH
	H	amino acid	OH	NH ₂	SMe
	H	amino acid	OH	NH ₂	SEt
	H	amino acid	OH	NH ₂	S-cyclopropyl
50	H	amino acid	OH	NH ₂	F
	H	amino acid	OH	NH ₂	Cl
	H	amino acid	OH	NH ₂	Br
	H	amino acid	OH	NH ₂	I
	amino acid	amino acid	OH	NH ₂	H
	amino acid	amino acid	OH	NH ₂	NH ₂
55	amino acid	amino acid	OH	NH ₂	NH-cyclopropyl
	amino acid	amino acid	OH	NH ₂	NH-methyl
	amino acid	amino acid	OH	NH ₂	NH-ethyl
	amino acid	amino acid	OH	NH ₂	NH-acetyl
	amino acid	amino acid	OH	NH ₂	OH
	amino acid	amino acid	OH	NH ₂	OMe
	amino acid	amino acid	OH	NH ₂	OEt
60	amino acid	amino acid	OH	NH ₂	O-cyclopropyl
	amino acid	amino acid	OH	NH ₂	O-acetyl
	amino acid	amino acid	OH	NH ₂	SH
	amino acid	amino acid	OH	NH ₂	SMe
	amino acid	amino acid	OH	NH ₂	SEt
	amino acid	amino acid	OH	NH ₂	S-cyclopropyl
65	amino acid	amino acid	OH	NH ₂	F
	amino acid	amino acid	OH	NH ₂	Cl

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
amino acid	amino acid	OH	NH ₂	Br
amino acid	amino acid	OH	NH ₂	I
amino acid	H	OH	NH ₂	H
amino acid	H	OH	NH ₂	NH ₃
amino acid	H	OH	NH ₂	NH-cyclopropyl
amino acid	H	OH	NH ₂	NH-methyl
amino acid	H	OH	NH ₂	NH-ethyl
amino acid	H	OH	NH ₂	NH-acetyl
amino acid	H	OH	NH ₂	OH
amino acid	H	OH	NH ₂	OMe
amino acid	H	OH	NH ₂	OEt
amino acid	H	OH	NH ₂	O-cyclopropyl
amino acid	H	OH	NH ₂	O-acetyl
amino acid	H	OH	NH ₂	SH
amino acid	H	OH	NH ₂	SMe
amino acid	H	OH	NH ₂	SEt
amino acid	H	OH	NH ₂	S-cyclopropyl
amino acid	H	OH	NH ₂	F
amino acid	H	OH	NH ₂	Cl
amino acid	H	OH	NH ₂	Br
amino acid	H	OH	NH ₂	I
amino acid	acyl	OH	NH ₂	H
amino acid	acyl	OH	NH ₂	NH ₂
amino acid	acyl	OH	NH ₂	NH-cyclopropyl
amino acid	acyl	OH	NH ₂	NH-methyl
amino acid	acyl	OH	NH ₂	NH-ethyl
amino acid	acyl	OH	NH ₂	NH-acetyl
amino acid	acyl	OH	NH ₂	OH
amino acid	acyl	OH	NH ₂	OMe
amino acid	acyl	OH	NH ₂	OEt
amino acid	acyl	OH	NH ₂	O-cyclopropyl
amino acid	acyl	OH	NH ₂	O-acetyl
amino acid	acyl	OH	NH ₂	SH
amino acid	acyl	OH	NH ₂	SMe
amino acid	acyl	OH	NH ₂	SEt
amino acid	acyl	OH	NH ₂	S-cyclopropyl
amino acid	acyl	OH	NH ₂	F
amino acid	acyl	OH	NH ₂	Cl
amino acid	acyl	OH	NH ₂	Br
amino acid	acyl	OH	NH ₂	I
acyl	H	CH ₃	SH	H
acyl	H	CH ₃	SH	NH ₂
acyl	H	CH ₃	SH	NH-cyclopropyl
acyl	H	CH ₃	SH	NH-methyl
acyl	H	CH ₃	SH	NH-ethyl
acyl	H	CH ₃	SH	NH-acetyl
acyl	H	CH ₃	SH	OH
acyl	H	CH ₃	SH	OMe
acyl	H	CH ₃	SH	OEt
acyl	H	CH ₃	SH	O-cyclopropyl
acyl	H	CH ₃	SH	O-acetyl
acyl	H	CH ₃	SH	SH
acyl	H	CH ₃	SH	SMe
acyl	H	CH ₃	SH	SEt
acyl	H	CH ₃	SH	S-cyclopropyl
acyl	H	CH ₃	SH	F
acyl	H	CH ₃	SH	Cl
acyl	H	CH ₃	SH	Br
acyl	H	CH ₃	SH	I
acyl	acyl	CH ₃	SH	H
acyl	acyl	CH ₃	SH	NH ₂
acyl	acyl	CH ₃	SH	NH-cyclopropyl
acyl	acyl	CH ₃	SH	NH-methyl
acyl	acyl	CH ₃	SH	NH-ethyl
acyl	acyl	CH ₃	SH	NH-acetyl
acyl	acyl	CH ₃	SH	OH
acyl	acyl	CH ₃	SH	OMe
acyl	acyl	CH ₃	SH	OEt
acyl	acyl	CH ₃	SH	O-cyclopropyl
acyl	acyl	CH ₃	SH	O-acetyl
acyl	acyl	CH ₃	SH	SH
acyl	acyl	CH ₃	SH	SMe
acyl	acyl	CH ₃	SH	SEt
acyl	acyl	CH ₃	SH	S-cyclopropyl
acyl	acyl	CH ₃	SH	F
acyl	acyl	CH ₃	SH	Cl
acyl	acyl	CH ₃	SH	Br

TABLE 1-continued

	R ²	R ³	X ¹	X ²	Y
5	acyl	acyl	CH ₃	SH	I
	acyl	amino acid	CH ₃	SH	H
	acyl	amino acid	CH ₃	SH	NH ₂
	acyl	amino acid	CH ₃	SH	NH-cyclopropyl
	acyl	amino acid	CH ₃	SH	NH-methyl
	acyl	amino acid	CH ₃	SH	NH-ethyl
10	acyl	amino acid	CH ₃	SH	NH-acetyl
	acyl	amino acid	CH ₃	SH	OH
	acyl	amino acid	CH ₃	SH	OMe
	acyl	amino acid	CH ₃	SH	OEt
	acyl	amino acid	CH ₃	SH	O-cyclopropyl
	acyl	amino acid	CH ₃	SH	O-acetyl
15	acyl	amino acid	CH ₃	SH	SH
	acyl	amino acid	CH ₃	SH	SMe
	acyl	amino acid	CH ₃	SH	SEt
	acyl	amino acid	CH ₃	SH	S-cyclopropyl
	acyl	amino acid	CH ₃	SH	F
	acyl	amino acid	CH ₃	SH	Cl
20	acyl	amino acid	CH ₃	SH	Br
	acyl	amino acid	CH ₃	SH	I
	H	acyl	CH ₃	SH	H
	H	acyl	CH ₃	SH	NH ₂
	H	acyl	CH ₃	SH	NH-cyclopropyl
	H	acyl	CH ₃	SH	NH-methyl
25	H	acyl	CH ₃	SH	NH-ethyl
	H	acyl	CH ₃	SH	NH-acetyl
	H	acyl	CH ₃	SH	OH
	H	acyl	CH ₃	SH	OMe
	H	acyl	CH ₃	SH	OEt
	H	acyl	CH ₃	SH	O-cyclopropyl
	H	acyl	CH ₃	SH	O-acetyl
30	H	acyl	CH ₃	SH	SH
	H	acyl	CH ₃	SH	SMe
	H	acyl	CH ₃	SH	SEt
	H	acyl	CH ₃	SH	S-cyclopropyl
	H	acyl	CH ₃	SH	F
	H	acyl	CH ₃	SH	Cl
35	H	acyl	CH ₃	SH	Br
	H	acyl	CH ₃	SH	I
	H	amino acid	CH ₃	SH	H
	H	amino acid	CH ₃	SH	NH ₂
	H	amino acid	CH ₃	SH	NH-cyclopropyl
	H	amino acid	CH ₃	SH	NH-methyl
40	H	amino acid	CH ₃	SH	NH-ethyl
	H	amino acid	CH ₃	SH	NH-acetyl
	H	amino acid	CH ₃	SH	OH
	H	amino acid	CH ₃	SH	OMe
	H	amino acid	CH ₃	SH	OEt
	H	amino acid	CH ₃	SH	O-cyclopropyl
	H	amino acid	CH ₃	SH	O-acetyl
45	H	amino acid	CH ₃	SH	SH
	H	amino acid	CH ₃	SH	SMe
	H	amino acid	CH ₃	SH	SEt
	H	amino acid	CH ₃	SH	S-cyclopropyl
	H	amino acid	CH ₃	SH	F
	H	amino acid	CH ₃	SH	Cl
50	H	amino acid	CH ₃	SH	Br
	H	amino acid	CH ₃	SH	I
	amino acid	amino acid	CH ₃	SH	H
	amino acid	amino acid	CH ₃	SH	NH ₂
	amino acid	amino acid	CH ₃	SH	NH-cyclopropyl
	amino acid	amino acid	CH ₃	SH	NH-methyl
55	amino acid	amino acid	CH ₃	SH	NH-ethyl
	amino acid	amino acid	CH ₃	SH	NH-acetyl
	amino acid	amino acid	CH ₃	SH	OH
	amino acid	amino acid	CH ₃	SH	OMe
	amino acid	amino acid	CH ₃	SH	OEt
	amino acid	amino acid	CH ₃	SH	O-cyclopropyl
	amino acid	amino acid	CH ₃	SH	O-acetyl
60	amino acid	amino acid	CH ₃	SH	SH
	amino acid	amino acid	CH ₃	SH	SMe
	amino acid	amino acid	CH ₃	SH	SEt
	amino acid	amino acid	CH ₃	SH	S-cyclopropyl
	amino acid	amino acid	CH ₃	SH	F
	amino acid	amino acid	CH ₃	SH	Cl
65	amino acid	amino acid	CH ₃	SH	Br
	amino acid	amino acid	CH ₃	SH	I

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
amino acid	H	CH ₃	SH	H
amino acid	H	CH ₃	SH	NH ₂
amino acid	H	CH ₃	SH	NH-cyclopropyl
amino acid	H	CH ₃	SH	NH-methyl
amino acid	H	CH ₃	SH	NH-ethyl
amino acid	H	CH ₃	SH	NH-acetyl
amino acid	H	CH ₃	SH	OH
amino acid	H	CH ₃	SH	OMe
amino acid	H	CH ₃	SH	OEt
amino acid	H	CH ₃	SH	O-cyclopropyl
amino acid	H	CH ₃	SH	O-acetyl
amino acid	H	CH ₃	SH	SH
amino acid	H	CH ₃	SH	SMe
amino acid	H	CH ₃	SH	SEt
amino acid	H	CH ₃	SH	S-cyclopropyl
amino acid	H	CH ₃	SH	F
amino acid	H	CH ₃	SH	Cl
amino acid	H	CH ₃	SH	Br
amino acid	H	CH ₃	SH	I
amino acid	acyl	CH ₃	SH	H
amino acid	acyl	CH ₃	SH	NH ₂
amino acid	acyl	CH ₃	SH	NH-cyclopropyl
amino acid	acyl	CH ₃	SH	NH-methyl
amino acid	acyl	CH ₃	SH	NH-ethyl
amino acid	acyl	CH ₃	SH	NH-acetyl
amino acid	acyl	CH ₃	SH	OH
amino acid	acyl	CH ₃	SH	OMe
amino acid	acyl	CH ₃	SH	OEt
amino acid	acyl	CH ₃	SH	O-cyclopropyl
amino acid	acyl	CH ₃	SH	O-acetyl
amino acid	acyl	CH ₃	SH	SH
amino acid	acyl	CH ₃	SH	SMe
amino acid	acyl	CH ₃	SH	SEt
amino acid	acyl	CH ₃	SH	S-cyclopropyl
amino acid	acyl	CH ₃	SH	F
amino acid	acyl	CH ₃	SH	Cl
amino acid	acyl	CH ₃	SH	Br
amino acid	acyl	CH ₃	SH	I
acyl	H	CF ₃	SH	H
acyl	H	CF ₃	SH	NH ₂
acyl	H	CF ₃	SH	NH-cyclopropyl
acyl	H	CF ₃	SH	NH-methyl
acyl	H	CF ₃	SH	NH-ethyl
acyl	H	CF ₃	SH	NH-acetyl
acyl	H	CF ₃	SH	OH
acyl	H	CF ₃	SH	OMe
acyl	H	CF ₃	SH	OEt
acyl	H	CF ₃	SH	O-cyclopropyl
acyl	H	CF ₃	SH	O-acetyl
acyl	H	CF ₃	SH	SH
acyl	H	CF ₃	SH	SMe
acyl	H	CF ₃	SH	SEt
acyl	H	CF ₃	SH	S-cyclopropyl
acyl	H	CF ₃	SH	F
acyl	H	CF ₃	SH	Cl
acyl	H	CF ₃	SH	Br
acyl	H	CF ₃	SH	I
acyl	acyl	CF ₃	SH	H
acyl	acyl	CF ₃	SH	NH ₂
acyl	acyl	CF ₃	SH	NH-cyclopropyl
acyl	acyl	CF ₃	SH	NH-methyl
acyl	acyl	CF ₃	SH	NH-ethyl
acyl	acyl	CF ₃	SH	NH-acetyl
acyl	acyl	CF ₃	SH	OH
acyl	acyl	CF ₃	SH	OMe
acyl	acyl	CF ₃	SH	OEt
acyl	acyl	CF ₃	SH	O-cyclopropyl
acyl	acyl	CF ₃	SH	O-acetyl
acyl	acyl	CF ₃	SH	SH
acyl	acyl	CF ₃	SH	SMe
acyl	acyl	CF ₃	SH	SEt
acyl	acyl	CF ₃	SH	S-cyclopropyl
acyl	acyl	CF ₃	SH	F
acyl	acyl	CF ₃	SH	Cl
acyl	acyl	CF ₃	SH	Br
acyl	acyl	CF ₃	SH	I
acyl	amino acid	CF ₃	SH	H

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
5	acyl	amino acid	CF ₃	SH
	acyl	amino acid	CF ₃	SH
	acyl	amino acid	CF ₃	SH
	acyl	amino acid	CF ₃	SH
	acyl	amino acid	CF ₃	SH
10	acyl	amino acid	CF ₃	SH
	acyl	amino acid	CF ₃	SH
	acyl	amino acid	CF ₃	SH
	acyl	amino acid	CF ₃	SH
	acyl	amino acid	CF ₃	SH
15	acyl	amino acid	CF ₃	SH
	acyl	amino acid	CF ₃	SH
	acyl	amino acid	CF ₃	SH
	acyl	amino acid	CF ₃	SH
	acyl	amino acid	CF ₃	SH
20	H	acyl	CF ₃	SH
	H	acyl	CF ₃	SH
	H	acyl	CF ₃	SH
	H	acyl	CF ₃	SH
	H	acyl	CF ₃	SH
	H	acyl	CF ₃	SH
25	H	acyl	CF ₃	SH
	H	acyl	CF ₃	SH
	H	acyl	CF ₃	SH
	H	acyl	CF ₃	SH
	H	acyl	CF ₃	SH
	H	acyl	CF ₃	SH
30	H	acyl	CF ₃	SH
	H	acyl	CF ₃	SH
	H	acyl	CF ₃	SH
	H	acyl	CF ₃	SH
	H	acyl	CF ₃	SH
	H	acyl	CF ₃	SH
35	H	amino acid	CF ₃	SH
	H	amino acid	CF ₃	SH
	H	amino acid	CF ₃	SH
	H	amino acid	CF ₃	SH
	H	amino acid	CF ₃	SH
	H	amino acid	CF ₃	SH
40	H	amino acid	CF ₃	SH
	H	amino acid	CF ₃	SH
	H	amino acid	CF ₃	SH
	H	amino acid	CF ₃	SH
	H	amino acid	CF ₃	SH
	H	amino acid	CF ₃	SH
45	H	amino acid	CF ₃	SH
	H	amino acid	CF ₃	SH
	H	amino acid	CF ₃	SH
	H	amino acid	CF ₃	SH
	H	amino acid	CF ₃	SH
	H	amino acid	CF ₃	SH
50	amino acid	amino acid	CF ₃	SH
	amino acid	amino acid	CF ₃	SH
	amino acid	amino acid	CF ₃	SH
	amino acid	amino acid	CF ₃	SH
	amino acid	amino acid	CF ₃	SH
	amino acid	amino acid	CF ₃	SH
55	amino acid	amino acid	CF ₃	SH
	amino acid	amino acid	CF ₃	SH
	amino acid	amino acid	CF ₃	SH
	amino acid	amino acid	CF ₃	SH
	amino acid	amino acid	CF ₃	SH
	amino acid	amino acid	CF ₃	SH
60	amino acid	amino acid	CF ₃	SH
	amino acid	amino acid	CF ₃	SH
	amino acid	amino acid	CF ₃	SH
	amino acid	amino acid	CF ₃	SH
	amino acid	amino acid	CF ₃	SH
	amino acid	amino acid	CF ₃	SH
65	amino acid	H	CF ₃	SH
	amino acid	H	CF ₃	SH

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
amino acid	H	CF ₃	SH	NH-cyclopropyl
amino acid	H	CF ₃	SH	NH-methyl
amino acid	H	CF ₃	SH	NH-ethyl
amino acid	H	CF ₃	SH	NH-acetyl
amino acid	H	CF ₃	SH	OH
amino acid	H	CF ₃	SH	OMe
amino acid	H	CF ₃	SH	OEt
amino acid	H	CF ₃	SH	O-cyclopropyl
amino acid	H	CF ₃	SH	O-acetyl
amino acid	H	CF ₃	SH	SH
amino acid	H	CF ₃	SH	SMe
amino acid	H	CF ₃	SH	SEt
amino acid	H	CF ₃	SH	S-cyclopropyl
amino acid	H	CF ₃	SH	F
amino acid	H	CF ₃	SH	Cl
amino acid	H	CF ₃	SH	Br
amino acid	H	CF ₃	SH	I
amino acid	acyl	CF ₃	SH	H
amino acid	acyl	CF ₃	SH	NH ₂
amino acid	acyl	CF ₃	SH	NH-cyclopropyl
amino acid	acyl	CF ₃	SH	NH-methyl
amino acid	acyl	CF ₃	SH	NH-ethyl
amino acid	acyl	CF ₃	SH	NH-acetyl
amino acid	acyl	CF ₃	SH	OH
amino acid	acyl	CF ₃	SH	OMe
amino acid	acyl	CF ₃	SH	OEt
amino acid	acyl	CF ₃	SH	O-cyclopropyl
amino acid	acyl	CF ₃	SH	O-acetyl
amino acid	acyl	CF ₃	SH	SH
amino acid	acyl	CF ₃	SH	SMe
amino acid	acyl	CF ₃	SH	SEt
amino acid	acyl	CF ₃	SH	S-cyclopropyl
amino acid	acyl	CF ₃	SH	F
amino acid	acyl	CF ₃	SH	Cl
amino acid	acyl	CF ₃	SH	Br
amino acid	acyl	CF ₃	SH	I
acyl	H	Br	SH	H
acyl	H	Br	SH	NH ₂
acyl	H	Br	SH	NH-cyclopropyl
acyl	H	Br	SH	NH-methyl
acyl	H	Br	SH	NH-ethyl
acyl	H	Br	SH	NH-acetyl
acyl	H	Br	SH	OH
acyl	H	Br	SH	OMe
acyl	H	Br	SH	OEt
acyl	H	Br	SH	O-cyclopropyl
acyl	H	Br	SH	O-acetyl
acyl	H	Br	SH	SH
acyl	H	Br	SH	SMe
acyl	H	Br	SH	SEt
acyl	H	Br	SH	S-cyclopropyl
acyl	H	Br	SH	F
acyl	H	Br	SH	Cl
acyl	H	Br	SH	Br
acyl	H	Br	SH	I
acyl	acyl	Br	SH	H
acyl	acyl	Br	SH	NH ₂
acyl	acyl	Br	SH	NH-cyclopropyl
acyl	acyl	Br	SH	NH-methyl
acyl	acyl	Br	SH	NH-ethyl
acyl	acyl	Br	SH	NH-acetyl
acyl	acyl	Br	SH	OH
acyl	acyl	Br	SH	OMe
acyl	acyl	Br	SH	OEt
acyl	acyl	Br	SH	O-cyclopropyl
acyl	acyl	Br	SH	O-acetyl
acyl	acyl	Br	SH	SH
acyl	acyl	Br	SH	SMe
acyl	acyl	Br	SH	SEt
acyl	acyl	Br	SH	S-cyclopropyl
acyl	acyl	Br	SH	F
acyl	acyl	Br	SH	Cl
acyl	acyl	Br	SH	Br
acyl	acyl	Br	SH	I
acyl	amino acid	Br	SH	H
acyl	amino acid	Br	SH	NH ₂
acyl	amino acid	Br	SH	NH-cyclopropyl

TABLE 1-continued

	R ²	R ³	X ¹	X ²	Y
5	acyl	amino acid	Br	SH	NH-methyl
	acyl	amino acid	Br	SH	NH-ethyl
	acyl	amino acid	Br	SH	NH-acetyl
	acyl	amino acid	Br	SH	OH
	acyl	amino acid	Br	SH	OMe
	acyl	amino acid	Br	SH	OEt
10	acyl	amino acid	Br	SH	O-cyclopropyl
	acyl	amino acid	Br	SH	O-acetyl
	acyl	amino acid	Br	SH	SH
	acyl	amino acid	Br	SH	SMe
	acyl	amino acid	Br	SH	SEt
	acyl	amino acid	Br	SH	S-cyclopropyl
15	acyl	amino acid	Br	SH	F
	acyl	amino acid	Br	SH	Cl
	acyl	amino acid	Br	SH	Br
	acyl	amino acid	Br	SH	I
	H	acyl	Br	SH	H
	H	acyl	Br	SH	NH ₂
20	H	acyl	Br	SH	NH-cyclopropyl
	H	acyl	Br	SH	NH-methyl
	H	acyl	Br	SH	NH-ethyl
	H	acyl	Br	SH	NH-acetyl
	H	acyl	Br	SH	OH
	H	acyl	Br	SH	OMe
	H	acyl	Br	SH	OEt
25	H	acyl	Br	SH	O-cyclopropyl
	H	acyl	Br	SH	O-acetyl
	H	acyl	Br	SH	SH
	H	acyl	Br	SH	SMe
	H	acyl	Br	SH	SEt
	H	acyl	Br	SH	S-cyclopropyl
30	H	acyl	Br	SH	F
	H	acyl	Br	SH	Cl
	H	acyl	Br	SH	Br
	H	acyl	Br	SH	I
	H	amino acid	Br	SH	H
	H	amino acid	Br	SH	NH ₂
35	H	amino acid	Br	SH	NH-cyclopropyl
	H	amino acid	Br	SH	NH-methyl
	H	amino acid	Br	SH	NH-ethyl
	H	amino acid	Br	SH	NH-acetyl
	H	amino acid	Br	SH	OH
	H	amino acid	Br	SH	OMe
	H	amino acid	Br	SH	OEt
40	H	amino acid	Br	SH	O-cyclopropyl
	H	amino acid	Br	SH	O-acetyl
	H	amino acid	Br	SH	SH
	H	amino acid	Br	SH	SMe
	H	amino acid	Br	SH	SEt
	H	amino acid	Br	SH	S-cyclopropyl
45	H	amino acid	Br	SH	F
	H	amino acid	Br	SH	Cl
	H	amino acid	Br	SH	Br
	H	amino acid	Br	SH	I
	amino acid	amino acid	Br	SH	H
	amino acid	amino acid	Br	SH	NH ₂
50	amino acid	amino acid	Br	SH	NH-cyclopropyl
	amino acid	amino acid	Br	SH	NH-methyl
	amino acid	amino acid	Br	SH	NH-ethyl
	amino acid	amino acid	Br	SH	NH-acetyl
	amino acid	amino acid	Br	SH	OH
	amino acid	amino acid	Br	SH	OMe
	amino acid	amino acid	Br	SH	OEt
55	amino acid	amino acid	Br	SH	O-cyclopropyl
	amino acid	amino acid	Br	SH	O-acetyl
	amino acid	amino acid	Br	SH	SH
	amino acid	amino acid	Br	SH	SMe
	amino acid	amino acid	Br	SH	SEt
	amino acid	amino acid	Br	SH	S-cyclopropyl
60	amino acid	amino acid	Br	SH	F
	amino acid	amino acid	Br	SH	Cl
	amino acid	amino acid	Br	SH	Br
	amino acid	amino acid	Br	SH	I
	amino acid	H	Br	SH	H
	amino acid	H	Br	SH	NH ₂
65	amino acid	H	Br	SH	NH-cyclopropyl
	amino acid	H	Br	SH	NH-methyl

TABLE 1-continued

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TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
amino acid	H	Cl	SH	OH
amino acid	H	Cl	SH	OMe
amino acid	H	Cl	SH	OEt
amino acid	H	Cl	SH	O-cyclopropyl
amino acid	H	Cl	SH	O-acetyl
amino acid	H	Cl	SH	SH
amino acid	H	Cl	SH	SMe
amino acid	H	Cl	SH	SEt
amino acid	H	Cl	SH	S-cyclopropyl
amino acid	H	Cl	SH	F
amino acid	H	Cl	SH	Cl
amino acid	H	Cl	SH	Br
amino acid	H	Cl	SH	I
amino acid	acyl	Cl	SH	H
amino acid	acyl	Cl	SH	NH ₂
amino acid	acyl	Cl	SH	NH-cyclopropyl
amino acid	acyl	Cl	SH	NH-methyl
amino acid	acyl	Cl	SH	NH-ethyl
amino acid	acyl	Cl	SH	NH-acetyl
amino acid	acyl	Cl	SH	OH
amino acid	acyl	Cl	SH	OMe
amino acid	acyl	Cl	SH	OEt
amino acid	acyl	Cl	SH	O-cyclopropyl
amino acid	acyl	Cl	SH	O-acetyl
amino acid	acyl	Cl	SH	SH
amino acid	acyl	Cl	SH	SMe
amino acid	acyl	Cl	SH	SEt
amino acid	acyl	Cl	SH	S-cyclopropyl
amino acid	acyl	Cl	SH	F
amino acid	acyl	Cl	SH	Cl
amino acid	acyl	Cl	SH	Br
amino acid	acyl	Cl	SH	I
acyl	H	F	SH	H
acyl	H	F	SH	NH ₂
acyl	H	F	SH	NH-cyclopropyl
acyl	H	F	SH	NH-methyl
acyl	H	F	SH	NH-ethyl
acyl	H	F	SH	NH-acetyl
acyl	H	F	SH	OH
acyl	H	F	SH	OMe
acyl	H	F	SH	OEt
acyl	H	F	SH	O-cyclopropyl
acyl	H	F	SH	O-acetyl
acyl	H	F	SH	SH
acyl	H	F	SH	SMe
acyl	H	F	SH	SEt
acyl	H	F	SH	S-cyclopropyl
acyl	H	F	SH	F
acyl	H	F	SH	Cl
acyl	H	F	SH	Br
acyl	H	F	SH	I
acyl	acyl	F	SH	H
acyl	acyl	F	SH	NH ₂
acyl	acyl	F	SH	NH-cyclopropyl
acyl	acyl	F	SH	NH-methyl
acyl	acyl	F	SH	NH-ethyl
acyl	acyl	F	SH	NH-acetyl
acyl	acyl	F	SH	OH
acyl	acyl	F	SH	OMe
acyl	acyl	F	SH	OEt
acyl	acyl	F	SH	O-cyclopropyl
acyl	acyl	F	SH	O-acetyl
acyl	acyl	F	SH	SH
acyl	acyl	F	SH	SMe
acyl	acyl	F	SH	SEt
acyl	acyl	F	SH	S-cyclopropyl
acyl	acyl	F	SH	F
acyl	acyl	F	SH	Cl
acyl	acyl	F	SH	Br
acyl	acyl	F	SH	I
acyl	amino acid	F	SH	H
acyl	amino acid	F	SH	NH ₂
acyl	amino acid	F	SH	NH-cyclopropyl
acyl	amino acid	F	SH	NH-methyl
acyl	amino acid	F	SH	NH-ethyl
acyl	amino acid	F	SH	NH-acetyl
acyl	amino acid	F	SH	OH
acyl	amino acid	F	SH	OMe
acyl	amino acid	F	SH	OEt
acyl	amino acid	F	SH	O-cyclopropyl
acyl	amino acid	F	SH	O-acetyl
acyl	amino acid	F	SH	SH
acyl	amino acid	F	SH	SMe
acyl	amino acid	F	SH	SEt
acyl	amino acid	F	SH	S-cyclopropyl
acyl	amino acid	F	SH	F
acyl	amino acid	F	SH	Cl
acyl	amino acid	F	SH	Br
acyl	amino acid	F	SH	I
acyl	amino acid	F	SH	H
acyl	amino acid	F	SH	NH ₂
acyl	amino acid	F	SH	NH-cyclopropyl
acyl	amino acid	F	SH	NH-methyl
acyl	amino acid	F	SH	NH-ethyl
acyl	amino acid	F	SH	NH-acetyl
acyl	amino acid	F	SH	OH
acyl	amino acid	F	SH	OMe

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y	
5	acyl	amino acid	F	SH	OMe
	acyl	amino acid	F	SH	OEt
	acyl	amino acid	F	SH	O-cyclopropyl
	acyl	amino acid	F	SH	O-acetyl
	acyl	amino acid	F	SH	SH
	acyl	amino acid	F	SH	SMe
10	acyl	amino acid	F	SH	SEt
	acyl	amino acid	F	SH	S-cyclopropyl
	acyl	amino acid	F	SH	F
	acyl	amino acid	F	SH	Cl
	acyl	amino acid	F	SH	Br
	acyl	amino acid	F	SH	I
15	H	acyl	F	SH	H
	H	acyl	F	SH	NH ₂
	H	acyl	F	SH	NH-cyclopropyl
	H	acyl	F	SH	NH-methyl
	H	acyl	F	SH	NH-ethyl
	H	acyl	F	SH	NH-acetyl
20	H	acyl	F	SH	OH
	H	acyl	F	SH	OMe
	H	acyl	F	SH	OEt
	H	acyl	F	SH	O-cyclopropyl
	H	acyl	F	SH	O-acetyl
	H	acyl	F	SH	SH
	H	acyl	F	SH	SMe
25	H	acyl	F	SH	SEt
	H	acyl	F	SH	S-cyclopropyl
	H	acyl	F	SH	F
	H	acyl	F	SH	Cl
	H	acyl	F	SH	Br
	H	acyl	F	SH	I
30	H	amino acid	F	SH	H
	H	amino acid	F	SH	NH ₂
	H	amino acid	F	SH	NH-cyclopropyl
	H	amino acid	F	SH	NH-methyl
	H	amino acid	F	SH	NH-ethyl
	H	amino acid	F	SH	NH-acetyl
35	H	amino acid	F	SH	OH
	H	amino acid	F	SH	OMe
	H	amino acid	F	SH	OEt
	H	amino acid	F	SH	O-cyclopropyl
	H	amino acid	F	SH	O-acetyl
	H	amino acid	F	SH	SH
	H	amino acid	F	SH	SMe
40	H	amino acid	F	SH	SEt
	H	amino acid	F	SH	S-cyclopropyl
	H	amino acid	F	SH	F
	H	amino acid	F	SH	Cl
	H	amino acid	F	SH	Br
	H	amino acid	F	SH	I
45	amino acid	amino acid	F	SH	H
	amino acid	amino acid	F	SH	NH ₂
	amino acid	amino acid	F	SH	NH-cyclopropyl
	amino acid	amino acid	F	SH	NH-methyl
	amino acid	amino acid	F	SH	NH-ethyl
	amino acid	amino acid	F	SH	NH-acetyl
50	amino acid	amino acid	F	SH	OH
	amino acid	amino acid	F	SH	OMe
	amino acid	amino acid	F	SH	OEt
	amino acid	amino acid	F	SH	O-cyclopropyl
	amino acid	amino acid	F	SH	O-acetyl
	amino acid	amino acid	F	SH	SH
	amino acid	amino acid	F	SH	SMe
55	amino acid	amino acid	F	SH	SEt
	amino acid	amino acid	F	SH	S-cyclopropyl
	amino acid	amino acid	F	SH	F
	amino acid	amino acid	F	SH	Cl
	amino acid	amino acid	F	SH	Br
	amino acid	amino acid	F	SH	I
60	amino acid	H	F	SH	H
	amino acid	H	F	SH	NH ₂
	amino acid	H	F	SH	NH-cyclopropyl
	amino acid	H	F	SH	NH-methyl
	amino acid	H	F	SH	NH-ethyl
	amino acid	H	F	SH	NH-acetyl
65	amino acid	H	F	SH	OH
	amino acid	H	F	SH	OMe

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
amino acid	H	F	SH	OEt
amino acid	H	F	SH	O-cyclopropyl
amino acid	H	F	SH	O-acetyl
amino acid	H	F	SH	SH
amino acid	H	F	SH	SMe
amino acid	H	F	SH	SEt
amino acid	H	F	SH	S-cyclopropyl
amino acid	H	F	SH	F
amino acid	H	F	SH	Cl
amino acid	H	F	SH	Br
amino acid	H	F	SH	I
amino acid	H	F	SH	H
acyl	acyl	F	SH	H
amino acid	acyl	F	SH	NH ₂
amino acid	acyl	F	SH	NH-cyclopropyl
amino acid	acyl	F	SH	NH-methyl
amino acid	acyl	F	SH	NH-ethyl
amino acid	acyl	F	SH	NH-acetyl
amino acid	acyl	F	SH	OH
amino acid	acyl	F	SH	OMe
amino acid	acyl	F	SH	OEt
amino acid	acyl	F	SH	O-cyclopropyl
amino acid	acyl	F	SH	O-acetyl
amino acid	acyl	F	SH	SH
amino acid	acyl	F	SH	SMe
amino acid	acyl	F	SH	SEt
amino acid	acyl	F	SH	S-cyclopropyl
amino acid	acyl	F	SH	F
amino acid	acyl	F	SH	Cl
amino acid	acyl	F	SH	Br
amino acid	acyl	F	SH	I
amino acid	acyl	F	SH	H
acyl	H	NH ₂	SH	H
acyl	H	NH ₂	SH	NH ₂
acyl	H	NH ₂	SH	NH-cyclopropyl
acyl	H	NH ₂	SH	NH-methyl
acyl	H	NH ₂	SH	NH-ethyl
acyl	H	NH ₂	SH	NH-acetyl
acyl	H	NH ₂	SH	OH
acyl	H	NH ₂	SH	OMe
acyl	H	NH ₂	SH	OEt
acyl	H	NH ₂	SH	O-cyclopropyl
acyl	H	NH ₂	SH	O-acetyl
acyl	H	NH ₂	SH	SH
acyl	H	NH ₂	SH	SMe
acyl	H	NH ₂	SH	SEt
acyl	H	NH ₂	SH	S-cyclopropyl
acyl	H	NH ₂	SH	F
acyl	H	NH ₂	SH	Cl
acyl	H	NH ₂	SH	Br
acyl	H	NH ₂	SH	I
acyl	H	NH ₂	SH	H
acyl	acyl	NH ₂	SH	NH ₂
acyl	acyl	NH ₂	SH	NH-cyclopropyl
acyl	acyl	NH ₂	SH	NH-methyl
acyl	acyl	NH ₂	SH	NH-ethyl
acyl	acyl	NH ₂	SH	NH-acetyl
acyl	acyl	NH ₂	SH	OH
acyl	acyl	NH ₂	SH	OMe
acyl	acyl	NH ₂	SH	OEt
acyl	acyl	NH ₂	SH	O-cyclopropyl
acyl	acyl	NH ₂	SH	O-acetyl
acyl	acyl	NH ₂	SH	SH
acyl	acyl	NH ₂	SH	SMe
acyl	acyl	NH ₂	SH	SEt
acyl	acyl	NH ₂	SH	S-cyclopropyl
acyl	acyl	NH ₂	SH	F
acyl	acyl	NH ₂	SH	Cl
acyl	acyl	NH ₂	SH	Br
acyl	acyl	NH ₂	SH	I
acyl	acyl	NH ₂	SH	H
acyl	amino acid	NH ₂	SH	NH ₂
acyl	amino acid	NH ₂	SH	NH-cyclopropyl
acyl	amino acid	NH ₂	SH	NH-methyl
acyl	amino acid	NH ₂	SH	NH-ethyl
acyl	amino acid	NH ₂	SH	NH-acetyl
acyl	amino acid	NH ₂	SH	OH
acyl	amino acid	NH ₂	SH	OMe
acyl	amino acid	NH ₂	SH	OEt
acyl	amino acid	NH ₂	SH	O-cyclopropyl
acyl	amino acid	NH ₂	SH	O-acetyl
acyl	amino acid	NH ₂	SH	SH
acyl	amino acid	NH ₂	SH	SMe
acyl	amino acid	NH ₂	SH	SEt
acyl	amino acid	NH ₂	SH	S-cyclopropyl
acyl	amino acid	NH ₂	SH	F
acyl	amino acid	NH ₂	SH	Cl
acyl	amino acid	NH ₂	SH	Br
acyl	amino acid	NH ₂	SH	I
acyl	amino acid	NH ₂	SH	H
acyl	amino acid	NH ₂	SH	NH ₂
acyl	amino acid	NH ₂	SH	NH-cyclopropyl
acyl	amino acid	NH ₂	SH	NH-methyl
acyl	amino acid	NH ₂	SH	NH-ethyl
acyl	amino acid	NH ₂	SH	NH-acetyl
acyl	amino acid	NH ₂	SH	OH
acyl	amino acid	NH ₂	SH	OMe
acyl	amino acid	NH ₂	SH	OEt
acyl	amino acid	NH ₂	SH	O-cyclopropyl
acyl	amino acid	NH ₂	SH	O-acetyl

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y	
5	acyl	amino acid	NH ₂	SH	O-cyclopropyl
	acyl	amino acid	NH ₂	SH	O-acetyl
	acyl	amino acid	NH ₂	SH	SH
	acyl	amino acid	NH ₂	SH	SMe
	acyl	amino acid	NH ₂	SH	SEt
	acyl	amino acid	NH ₂	SH	S-cyclopropyl
10	acyl	amino acid	NH ₂	SH	F
	acyl	amino acid	NH ₂	SH	Cl
	acyl	amino acid	NH ₂	SH	Br
	acyl	amino acid	NH ₂	SH	I
	H	acyl	NH ₂	SH	H
	H	acyl	NH ₂	SH	NH ₂
15	H	acyl	NH ₂	SH	NH-cyclopropyl
	H	acyl	NH ₂	SH	NH-methyl
	H	acyl	NH ₂	SH	NH-ethyl
	H	acyl	NH ₂	SH	NH-acetyl
	H	acyl	NH ₂	SH	OH
	H	acyl	NH ₂	SH	OMe
	H	acyl	NH ₂	SH	OEt
20	H	acyl	NH ₂	SH	O-cyclopropyl
	H	acyl	NH ₂	SH	O-acetyl
	H	acyl	NH ₂	SH	SH
	H	acyl	NH ₂	SH	SMe
	H	acyl	NH ₂	SH	SEt
	H	acyl	NH ₂	SH	S-cyclopropyl
25	H	acyl	NH ₂	SH	F
	H	acyl	NH ₂	SH	Cl
	H	acyl	NH ₂	SH	Br
	H	acyl	NH ₂	SH	I
	H	amino acid	NH ₂	SH	H
	H	amino acid	NH ₂	SH	NH ₂
30	H	amino acid	NH ₂	SH	NH-cyclopropyl
	H	amino acid	NH ₂	SH	NH-methyl
	H	amino acid	NH ₂	SH	NH-ethyl
	H	amino acid	NH ₂	SH	NH-acetyl
	H	amino acid	NH ₂	SH	OH
	H	amino acid	NH ₂	SH	OMe
	H	amino acid	NH ₂	SH	OEt
35	H	amino acid	NH ₂	SH	O-cyclopropyl
	H	amino acid	NH ₂	SH	O-acetyl
	H	amino acid	NH ₂	SH	SH
	H	amino acid	NH ₂	SH	SMe
	H	amino acid	NH ₂	SH	SEt
	H	amino acid	NH ₂	SH	S-cyclopropyl
40	H	amino acid	NH ₂	SH	F
	H	amino acid	NH ₂	SH	Cl
	H	amino acid	NH ₂	SH	Br
	H	amino acid	NH ₂	SH	I
	amino acid	amino acid	NH ₂	SH	H
	amino acid	amino acid	NH ₂	SH	NH ₂
45	amino acid	amino acid	NH ₂	SH	NH-cyclopropyl
	amino acid	amino acid	NH ₂	SH	NH-methyl
	amino acid	amino acid	NH ₂	SH	NH-ethyl
	amino acid	amino acid	NH ₂	SH	NH-acetyl
	amino acid	amino acid	NH ₂	SH	OH
	amino acid	amino acid	NH ₂	SH	OMe
	amino acid	amino acid	NH ₂	SH	OEt
50	amino acid	amino acid	NH ₂	SH	O-cyclopropyl
	amino acid	amino acid	NH ₂	SH	O-acetyl
	amino acid	amino acid	NH ₂	SH	SH
	amino acid	amino acid	NH ₂	SH	SMe
	amino acid	amino acid	NH ₂	SH	SEt
55	amino acid	amino acid	NH ₂	SH	S-cyclopropyl
	amino acid	amino acid	NH ₂	SH	F
	amino acid	amino acid	NH ₂	SH	Cl
	amino acid	amino acid	NH ₂	SH	Br
	amino acid	amino acid	NH ₂	SH	I
	amino acid	H	NH ₂	SH	H
	amino acid	H	NH ₂	SH	NH ₂
60	amino acid	H	NH ₂	SH	NH-cyclopropyl
	amino acid	H	NH ₂	SH	NH-methyl
	amino acid	H	NH ₂	SH	NH-ethyl
	amino acid	H	NH ₂	SH	NH-acetyl
	amino acid	H	NH ₂	SH	OH
	amino acid	H	NH ₂	SH	OMe
	amino acid	H	NH ₂	SH	OEt
65	amino acid	H	NH ₂	SH	O-cyclopropyl

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
amino acid	H	NH ₂	SH	O-acetyl
amino acid	H	NH ₂	SH	SH
amino acid	H	NH ₂	SH	SMe
amino acid	H	NH ₂	SH	SEt
amino acid	H	NH ₂	SH	S-cyclopropyl
amino acid	H	NH ₂	SH	F
amino acid	H	NH ₂	SH	Cl
amino acid	H	NH ₂	SH	Br
amino acid	H	NH ₂	SH	I
amino acid	acyl	NH ₂	SH	H
amino acid	acyl	NH ₂	SH	NH ₂
amino acid	acyl	NH ₂	SH	NH-cyclopropyl
amino acid	acyl	NH ₂	SH	NH-methyl
amino acid	acyl	NH ₂	SH	NH-ethyl
amino acid	acyl	NH ₂	SH	NH-acetyl
amino acid	acyl	NH ₂	SH	OH
amino acid	acyl	NH ₂	SH	OMe
amino acid	acyl	NH ₂	SH	OEt
amino acid	acyl	NH ₂	SH	O-cyclopropyl
amino acid	acyl	NH ₂	SH	O-acetyl
amino acid	acyl	NH ₂	SH	SH
amino acid	acyl	NH ₂	SH	SMe
amino acid	acyl	NH ₂	SH	SEt
amino acid	acyl	NH ₂	SH	S-cyclopropyl
amino acid	acyl	NH ₂	SH	F
amino acid	acyl	NH ₂	SH	Cl
amino acid	acyl	NH ₂	SH	Br
amino acid	acyl	NH ₂	SH	I
acyl	H	SH	SH	H
acyl	H	SH	SH	NH ₂
acyl	H	SH	SH	NH-cyclopropyl
acyl	H	SH	SH	NH-methyl
acyl	H	SH	SH	NH-ethyl
acyl	H	SH	SH	NH-acetyl
acyl	H	SH	SH	OH
acyl	H	SH	SH	OMe
acyl	H	SH	SH	OEt
acyl	H	SH	SH	O-cyclopropyl
acyl	H	SH	SH	O-acetyl
acyl	H	SH	SH	SH
acyl	H	SH	SH	SMe
acyl	H	SH	SH	SEt
acyl	H	SH	SH	S-cyclopropyl
acyl	H	SH	SH	F
acyl	H	SH	SH	Cl
acyl	H	SH	SH	Br
acyl	H	SH	SH	I
acyl	acyl	SH	SH	H
acyl	acyl	SH	SH	NH ₂
acyl	acyl	SH	SH	NH-cyclopropyl
acyl	acyl	SH	SH	NH-methyl
acyl	acyl	SH	SH	NH-ethyl
acyl	acyl	SH	SH	NH-acetyl
acyl	acyl	SH	SH	OH
acyl	acyl	SH	SH	OMe
acyl	acyl	SH	SH	OEt
acyl	acyl	SH	SH	O-cyclopropyl
acyl	acyl	SH	SH	O-acetyl
acyl	acyl	SH	SH	SH
acyl	acyl	SH	SH	SMe
acyl	acyl	SH	SH	SEt
acyl	acyl	SH	SH	S-cyclopropyl
acyl	acyl	SH	SH	F
acyl	acyl	SH	SH	Cl
acyl	acyl	SH	SH	Br
acyl	acyl	SH	SH	I
acyl	amino acid	SH	SH	H
acyl	amino acid	SH	SH	NH ₂
acyl	amino acid	SH	SH	NH-cyclopropyl
acyl	amino acid	SH	SH	NH-methyl
acyl	amino acid	SH	SH	NH-ethyl
acyl	amino acid	SH	SH	NH-acetyl
acyl	amino acid	SH	SH	OH
acyl	amino acid	SH	SH	OMe
acyl	amino acid	SH	SH	OEt
acyl	amino acid	SH	SH	O-cyclopropyl
acyl	amino acid	SH	SH	O-acetyl

TABLE 1-continued

	R ²	R ³	X ¹	X ²	Y
5	acyl	amino acid	SH	SH	SH
	acyl	amino acid	SH	SH	SMe
	acyl	amino acid	SH	SH	SEt
	acyl	amino acid	SH	SH	S-cyclopropyl
	acyl	amino acid	SH	SH	F
	acyl	amino acid	SH	SH	Cl
10	acyl	amino acid	SH	SH	Br
	acyl	amino acid	SH	SH	I
	H	acyl	SH	SH	H
	H	acyl	SH	SH	NH ₂
	H	acyl	SH	SH	NH-cyclopropyl
	H	acyl	SH	SH	NH-methyl
15	H	acyl	SH	SH	NH-ethyl
	H	acyl	SH	SH	NH-acetyl
	H	acyl	SH	SH	OH
	H	acyl	SH	SH	OMe
	H	acyl	SH	SH	OEt
	H	acyl	SH	SH	O-cyclopropyl
	H	acyl	SH	SH	O-acetyl
20	H	acyl	SH	SH	SH
	H	acyl	SH	SH	SMe
	H	acyl	SH	SH	SEt
	H	acyl	SH	SH	S-cyclopropyl
	H	acyl	SH	SH	F
	H	acyl	SH	SH	Cl
25	H	acyl	SH	SH	Br
	H	acyl	SH	SH	I
	H	amino acid	SH	SH	H
	H	amino acid	SH	SH	NH ₂
	H	amino acid	SH	SH	NH-cyclopropyl
	H	amino acid	SH	SH	NH-methyl
30	H	amino acid	SH	SH	NH-ethyl
	H	amino acid	SH	SH	NH-acetyl
	H	amino acid	SH	SH	OH
	H	amino acid	SH	SH	OMe
	H	amino acid	SH	SH	OEt
	H	amino acid	SH	SH	O-cyclopropyl
	H	amino acid	SH	SH	O-acetyl
35	H	amino acid	SH	SH	SH
	H	amino acid	SH	SH	SMe
	H	amino acid	SH	SH	SEt
	H	amino acid	SH	SH	S-cyclopropyl
	H	amino acid	SH	SH	F
	H	amino acid	SH	SH	Cl
40	H	amino acid	SH	SH	Br
	H	amino acid	SH	SH	I
	amino acid	amino acid	SH	SH	H
	amino acid	amino acid	SH	SH	NH ₂
	amino acid	amino acid	SH	SH	NH-cyclopropyl
	amino acid	amino acid	SH	SH	NH-methyl
45	amino acid	amino acid	SH	SH	NH-ethyl
	amino acid	amino acid	SH	SH	NH-acetyl
	amino acid	amino acid	SH	SH	OH
	amino acid	amino acid	SH	SH	OMe
	amino acid	amino acid	SH	SH	OEt
	amino acid	amino acid	SH	SH	O-cyclopropyl
	amino acid	amino acid	SH	SH	O-acetyl
50	amino acid	amino acid	SH	SH	SH
	amino acid	amino acid	SH	SH	SMe
	amino acid	amino acid	SH	SH	SEt
	amino acid	amino acid	SH	SH	S-cyclopropyl
	amino acid	amino acid	SH	SH	F
	amino acid	amino acid	SH	SH	Cl
55	amino acid	amino acid	SH	SH	Br
	amino acid	amino acid	SH	SH	I
	amino acid	H	SH	SH	H
	amino acid	H	SH	SH	NH ₂
	amino acid	H	SH	SH	NH-cyclopropyl
	amino acid	H	SH	SH	NH-methyl
60	amino acid	H	SH	SH	NH-ethyl
	amino acid	H	SH	SH	NH-acetyl
	amino acid	H	SH	SH	OH
	amino acid	H	SH	SH	OMe
	amino acid	H	SH	SH	OEt
	amino acid	H	SH	SH	O-cyclopropyl
	amino acid	H	SH	SH	O-acetyl
65	amino acid	H	SH	SH	SH

TABLE 1-continued

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TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
amino acid	H	OH	SH	S-cyclopropyl
amino acid	H	OH	SH	F
amino acid	H	OH	SH	Cl
amino acid	H	OH	SH	Br
amino acid	H	OH	SH	I
amino acid	acyl	OH	SH	H
amino acid	acyl	OH	SH	NH ₂
amino acid	acyl	OH	SH	NH-cyclopropyl
amino acid	acyl	OH	SH	NH-methyl
amino acid	acyl	OH	SH	NH-ethyl
amino acid	acyl	OH	SH	NH-acetyl
amino acid	acyl	OH	SH	OH
amino acid	acyl	OH	SH	OMe
amino acid	acyl	OH	SH	OEt
amino acid	acyl	OH	SH	O-cyclopropyl
amino acid	acyl	OH	SH	O-acetyl
amino acid	acyl	OH	SH	SH
amino acid	acyl	OH	SH	SMe
amino acid	acyl	OH	SH	SEt
amino acid	acyl	OH	SH	S-cyclopropyl
amino acid	acyl	OH	SH	F
amino acid	acyl	OH	SH	Cl
amino acid	acyl	OH	SH	Br
amino acid	acyl	OH	SH	I
acyl	H	CH ₃	OH	H
acyl	H	CH ₃	OH	NH ₂
acyl	H	CH ₃	OH	NH-cyclopropyl
acyl	H	CH ₃	OH	NH-methyl
acyl	H	CH ₃	OH	NH-ethyl
acyl	H	CH ₃	OH	NH-acetyl
acyl	H	CH ₃	OH	OH
acyl	H	CH ₃	OH	OMe
acyl	H	CH ₃	OH	OEt
acyl	H	CH ₃	OH	O-cyclopropyl
acyl	H	CH ₃	OH	O-acetyl
acyl	H	CH ₃	OH	SH
acyl	H	CH ₃	OH	SMe
acyl	H	CH ₃	OH	SEt
acyl	H	CH ₃	OH	S-cyclopropyl
acyl	H	CH ₃	OH	F
acyl	H	CH ₃	OH	Cl
acyl	H	CH ₃	OH	Br
acyl	H	CH ₃	OH	I
acyl	acyl	CH ₃	OH	H
acyl	acyl	CH ₃	OH	NH ₂
acyl	acyl	CH ₃	OH	NH-cyclopropyl
acyl	acyl	CH ₃	OH	NH-methyl
acyl	acyl	CH ₃	OH	NH-ethyl
acyl	acyl	CH ₃	OH	NH-acetyl
acyl	acyl	CH ₃	OH	OH
acyl	acyl	CH ₃	OH	OMe
acyl	acyl	CH ₃	OH	OEt
acyl	acyl	CH ₃	OH	O-cyclopropyl
acyl	acyl	CH ₃	OH	O-acetyl
acyl	acyl	CH ₃	OH	SH
acyl	acyl	CH ₃	OH	SMe
acyl	acyl	CH ₃	OH	SEt
acyl	acyl	CH ₃	OH	S-cyclopropyl
acyl	acyl	CH ₃	OH	F
acyl	acyl	CH ₃	OH	Cl
acyl	acyl	CH ₃	OH	Br
acyl	acyl	CH ₃	OH	I
acyl	amino acid	CH ₃	OH	H
acyl	amino acid	CH ₃	OH	NH ₂
acyl	amino acid	CH ₃	OH	NH-cyclopropyl
acyl	amino acid	CH ₃	OH	NH-methyl
acyl	amino acid	CH ₃	OH	NH-ethyl
acyl	amino acid	CH ₃	OH	NH-acetyl
acyl	amino acid	CH ₃	OH	OH
acyl	amino acid	CH ₃	OH	OMe
acyl	amino acid	CH ₃	OH	OEt
acyl	amino acid	CH ₃	OH	O-cyclopropyl
acyl	amino acid	CH ₃	OH	O-acetyl
acyl	amino acid	CH ₃	OH	SH
acyl	amino acid	CH ₃	OH	SMe
acyl	amino acid	CH ₃	OH	SEt
acyl	amino acid	CH ₃	OH	S-cyclopropyl
acyl	amino acid	CH ₃	OH	F
acyl	amino acid	CH ₃	OH	Cl
acyl	amino acid	CH ₃	OH	Br
acyl	amino acid	CH ₃	OH	I
acyl	amino acid	CH ₃	OH	H
acyl	amino acid	CH ₃	OH	NH ₂
acyl	amino acid	CH ₃	OH	NH-cyclopropyl
acyl	amino acid	CH ₃	OH	NH-methyl
acyl	amino acid	CH ₃	OH	NH-ethyl
acyl	amino acid	CH ₃	OH	NH-acetyl
acyl	amino acid	CH ₃	OH	OH
acyl	amino acid	CH ₃	OH	OMe
acyl	amino acid	CH ₃	OH	OEt
acyl	amino acid	CH ₃	OH	O-cyclopropyl
acyl	amino acid	CH ₃	OH	O-acetyl
acyl	amino acid	CH ₃	OH	SH
acyl	amino acid	CH ₃	OH	SMe
acyl	amino acid	CH ₃	OH	SEt
acyl	amino acid	CH ₃	OH	S-cyclopropyl
acyl	amino acid	CH ₃	OH	F

TABLE 1-continued

	R ²	R ³	X ¹	X ²	Y
5	acyl	amino acid	CH ₃	OH	F
	acyl	amino acid	CH ₃	OH	Cl
	acyl	amino acid	CH ₃	OH	Br
	acyl	amino acid	CH ₃	OH	I
	H	acyl	CH ₃	OH	H
10	H	acyl	CH ₃	OH	NH ₂
	H	acyl	CH ₃	OH	NH-cyclopropyl
	H	acyl	CH ₃	OH	NH-methyl
	H	acyl	CH ₃	OH	NH-ethyl
	H	acyl	CH ₃	OH	NH-acetyl
	H	acyl	CH ₃	OH	OH
	H	acyl	CH ₃	OH	OMe
15	H	acyl	CH ₃	OH	OEt
	H	acyl	CH ₃	OH	O-cyclopropyl
	H	acyl	CH ₃	OH	O-acetyl
	H	acyl	CH ₃	OH	SH
	H	acyl	CH ₃	OH	SMe
	H	acyl	CH ₃	OH	SEt
	H	acyl	CH ₃	OH	S-cyclopropyl
20	H	acyl	CH ₃	OH	F
	H	acyl	CH ₃	OH	Cl
	H	acyl	CH ₃	OH	Br
	H	acyl	CH ₃	OH	I
	H	amino acid	CH ₃	OH	H
	H	amino acid	CH ₃	OH	NH ₂
	H	amino acid	CH ₃	OH	NH-cyclopropyl
25	H	amino acid	CH ₃	OH	NH-methyl
	H	amino acid	CH ₃	OH	NH-ethyl
	H	amino acid	CH ₃	OH	NH-acetyl
	H	amino acid	CH ₃	OH	OH
	H	amino acid	CH ₃	OH	OMe
	H	amino acid	CH ₃	OH	OEt
	H	amino acid	CH ₃	OH	O-cyclopropyl
30	H	amino acid	CH ₃	OH	O-acetyl
	H	amino acid	CH ₃	OH	SH
	H	amino acid	CH ₃	OH	SMe
	H	amino acid	CH ₃	OH	SEt
	H	amino acid	CH ₃	OH	S-cyclopropyl
	H	amino acid	CH ₃	OH	F
	H	amino acid	CH ₃	OH	Cl
35	H	amino acid	CH ₃	OH	Br
	H	amino acid	CH ₃	OH	I
	H	amino acid	CH ₃	OH	H
	amino acid	amino acid	CH ₃	OH	NH ₂
	amino acid	amino acid	CH ₃	OH	NH-cyclopropyl
	amino acid	amino acid	CH ₃	OH	NH-methyl
	amino acid	amino acid	CH ₃	OH	NH-ethyl
40	amino acid	amino acid	CH ₃	OH	NH-acetyl
	amino acid	amino acid	CH ₃	OH	OH
	amino acid	amino acid	CH ₃	OH	OMe
	amino acid	amino acid	CH ₃	OH	OEt
	amino acid	amino acid	CH ₃	OH	O-cyclopropyl
	amino acid	amino acid	CH ₃	OH	O-acetyl
	amino acid	amino acid	CH ₃	OH	SH
45	amino acid	amino acid	CH ₃	OH	SMe
	amino acid	amino acid	CH ₃	OH	SEt
	amino acid	amino acid	CH ₃	OH	S-cyclopropyl
	amino acid	amino acid	CH ₃	OH	F
	amino acid	amino acid	CH ₃	OH	Cl
	amino acid	amino acid	CH ₃	OH	Br
	amino acid	amino acid	CH ₃	OH	I
50	amino acid	H	CH ₃	OH	H
	amino acid	H	CH ₃	OH	NH ₂
	amino acid	H	CH ₃	OH	NH-cyclopropyl
	amino acid	H	CH ₃	OH	NH-methyl
	amino acid	H	CH ₃	OH	NH-ethyl
	amino acid	H	CH ₃	OH	NH-acetyl
	amino acid	H	CH ₃	OH	OH
55	amino acid	H	CH ₃	OH	OMe
	amino acid	H	CH ₃	OH	OEt
	amino acid	H	CH ₃	OH	O-cyclopropyl
	amino acid	H	CH ₃	OH	O-acetyl
	amino acid	H	CH ₃	OH	SH
	amino acid	H	CH ₃	OH	SMe
	amino acid	H	CH ₃	OH	SEt
60	amino acid	H	CH ₃	OH	S-cyclopropyl
	amino acid	H	CH ₃	OH	F
	amino acid	H	CH ₃	OH	Cl
	amino acid	H	CH ₃	OH	Br
	amino acid	H	CH ₃	OH	I
	amino acid	H	CH ₃	OH	H
	amino acid	H	CH ₃	OH	NH ₂
65	amino acid	H	CH ₃	OH	NH-cyclopropyl
	amino acid	H	CH ₃	OH	NH-methyl
	amino acid	H	CH ₃	OH	NH-ethyl
	amino acid	H	CH ₃	OH	NH-acetyl
	amino acid	H	CH ₃	OH	OH
	amino acid	H	CH ₃	OH	OMe
	amino acid	H	CH ₃	OH	OEt
60	amino acid	H	CH ₃	OH	O-cyclopropyl
	amino acid	H	CH ₃	OH	O-acetyl
	amino acid	H	CH ₃	OH	SH
	amino acid	H	CH ₃	OH	SMe
	amino acid	H	CH ₃	OH	SEt
	amino acid	H	CH ₃	OH	S-cyclopropyl
	amino acid	H	CH ₃	OH	F

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
amino acid	H	CH ₃	OH	Cl
amino acid	H	CH ₃	OH	Br
amino acid	H	CH ₃	OH	I
amino acid	acyl	CH ₃	OH	H
amino acid	acyl	CH ₃	OH	NH ₂
amino acid	acyl	CH ₃	OH	NH-cyclopropyl
amino acid	acyl	CH ₃	OH	NH-methyl
amino acid	acyl	CH ₃	OH	NH-ethyl
amino acid	acyl	CH ₃	OH	NH-acetyl
amino acid	acyl	CH ₃	OH	OH
amino acid	acyl	CH ₃	OH	OMe
amino acid	acyl	CH ₃	OH	OEt
amino acid	acyl	CH ₃	OH	O-cyclopropyl
amino acid	acyl	CH ₃	OH	O-acetyl
amino acid	acyl	CH ₃	OH	SH
amino acid	acyl	CH ₃	OH	SMe
amino acid	acyl	CH ₃	OH	SEt
amino acid	acyl	CH ₃	OH	S-cyclopropyl
amino acid	acyl	CH ₃	OH	F
amino acid	acyl	CH ₃	OH	Cl
amino acid	acyl	CH ₃	OH	Br
amino acid	acyl	CH ₃	OH	I
acyl	H	CF ₃	OH	H
acyl	H	CF ₃	OH	NH ₂
acyl	H	CF ₃	OH	NH-cyclopropyl
acyl	H	CF ₃	OH	NH-methyl
acyl	H	CF ₃	OH	NH-ethyl
acyl	H	CF ₃	OH	NH-acetyl
acyl	H	CF ₃	OH	OH
acyl	H	CF ₃	OH	OMe
acyl	H	CF ₃	OH	OEt
acyl	H	CF ₃	OH	O-cyclopropyl
acyl	H	CF ₃	OH	O-acetyl
acyl	H	CF ₃	OH	SH
acyl	H	CF ₃	OH	SMe
acyl	H	CF ₃	OH	SEt
acyl	H	CF ₃	OH	S-cyclopropyl
acyl	H	CF ₃	OH	F
acyl	H	CF ₃	OH	Cl
acyl	H	CF ₃	OH	Br
acyl	H	CF ₃	OH	I
acyl	acyl	CF ₃	OH	H
acyl	acyl	CF ₃	OH	NH ₂
acyl	acyl	CF ₃	OH	NH-cyclopropyl
acyl	acyl	CF ₃	OH	NH-methyl
acyl	acyl	CF ₃	OH	NH-ethyl
acyl	acyl	CF ₃	OH	NH-acetyl
acyl	acyl	CF ₃	OH	OH
acyl	acyl	CF ₃	OH	OMe
acyl	acyl	CF ₃	OH	OEt
acyl	acyl	CF ₃	OH	O-cyclopropyl
acyl	acyl	CF ₃	OH	O-acetyl
acyl	acyl	CF ₃	OH	SH
acyl	acyl	CF ₃	OH	SMe
acyl	acyl	CF ₃	OH	SEt
acyl	acyl	CF ₃	OH	S-cyclopropyl
acyl	acyl	CF ₃	OH	F
acyl	acyl	CF ₃	OH	Cl
acyl	acyl	CF ₃	OH	Br
acyl	acyl	CF ₃	OH	I
acyl	amino acid	CF ₃	OH	H
acyl	amino acid	CF ₃	OH	NH ₂
acyl	amino acid	CF ₃	OH	NH-cyclopropyl
acyl	amino acid	CF ₃	OH	NH-methyl
acyl	amino acid	CF ₃	OH	NH-ethyl
acyl	amino acid	CF ₃	OH	NH-acetyl
acyl	amino acid	CF ₃	OH	OH
acyl	amino acid	CF ₃	OH	OMe
acyl	amino acid	CF ₃	OH	OEt
acyl	amino acid	CF ₃	OH	O-cyclopropyl
acyl	amino acid	CF ₃	OH	O-acetyl
acyl	amino acid	CF ₃	OH	SH
acyl	amino acid	CF ₃	OH	SMe
acyl	amino acid	CF ₃	OH	SEt
acyl	amino acid	CF ₃	OH	S-cyclopropyl
acyl	amino acid	CF ₃	OH	F
acyl	amino acid	CF ₃	OH	Cl

TABLE 1-continued

	R ²	R ³	X ¹	X ²	Y	
5	acyl	amino acid	CF ₃	OH	Br	
	acyl	amino acid	CF ₃	OH	I	
	H	acyl	CF ₃	OH	H	
	H	acyl	CF ₃	OH	NH ₂	
10	H	acyl	CF ₃	OH	NH-cyclopropyl	
	H	acyl	CF ₃	OH	NH-methyl	
	H	acyl	CF ₃	OH	NH-ethyl	
	H	acyl	CF ₃	OH	NH-acetyl	
	H	acyl	CF ₃	OH	OH	
	H	acyl	CF ₃	OH	OMe	
	H	acyl	CF ₃	OH	OEt	
	H	acyl	CF ₃	OH	O-cyclopropyl	
15	H	acyl	CF ₃	OH	O-acetyl	
	H	acyl	CF ₃	OH	SH	
	H	acyl	CF ₃	OH	SMe	
	H	acyl	CF ₃	OH	SEt	
	H	acyl	CF ₃	OH	S-cyclopropyl	
	H	acyl	CF ₃	OH	F	
	H	acyl	CF ₃	OH	Cl	
	H	acyl	CF ₃	OH	Br	
20	H	acyl	CF ₃	OH	I	
	H	amino acid	CF ₃	OH	H	
	H	amino acid	CF ₃	OH	NH ₂	
	H	amino acid	CF ₃	OH	NH-cyclopropyl	
	25	H	amino acid	CF ₃	OH	NH-methyl
	H	amino acid	CF ₃	OH	NH-ethyl	
	H	amino acid	CF ₃	OH	NH-acetyl	
	H	amino acid	CF ₃	OH	OH	
30	H	amino acid	CF ₃	OH	OMe	
	H	amino acid	CF ₃	OH	OEt	
	H	amino acid	CF ₃	OH	O-cyclopropyl	
	H	amino acid	CF ₃	OH	O-acetyl	
	H	amino acid	CF ₃	OH	SH	
	H	amino acid	CF ₃	OH	SMe	
	H	amino acid	CF ₃	OH	SEt	
	H	amino acid	CF ₃	OH	S-cyclopropyl	
35	H	amino acid	CF ₃	OH	F	
	H	amino acid	CF ₃	OH	Cl	
	H	amino acid	CF ₃	OH	Br	
	H	amino acid	CF ₃	OH	I	
	amino acid	amino acid	CF ₃	OH	H	
	amino acid	amino acid	CF ₃	OH	NH ₂	
	amino acid	amino acid	CF ₃	OH	NH-cyclopropyl	
	amino acid	amino acid	CF ₃	OH	NH-methyl	
40	amino acid	amino acid	CF ₃	OH	NH-ethyl	
	amino acid	amino acid	CF ₃	OH	NH-acetyl	
	amino acid	amino acid	CF ₃	OH	OH	
	amino acid	amino acid	CF ₃	OH	OMe	
	amino acid	amino acid	CF ₃	OH	OEt	
	amino acid	amino acid	CF ₃	OH	O-cyclopropyl	
	amino acid	amino acid	CF ₃	OH	O-acetyl	
	amino acid	amino acid	CF ₃	OH	SH	
45	amino acid	amino acid	CF ₃	OH	SMe	
	amino acid	amino acid	CF ₃	OH	SEt	
	amino acid	amino acid	CF ₃	OH	S-cyclopropyl	
	amino acid	amino acid	CF ₃	OH	F	
	50	amino acid	amino acid	CF ₃	OH	Cl
	amino acid	amino acid	CF ₃	OH	Br	
	amino acid	amino acid	CF ₃	OH	I	
	amino acid	H	CF ₃	OH	H	
55	amino acid	H	CF ₃	OH	NH ₂	
	amino acid	H	CF ₃	OH	NH-cyclopropyl	
	amino acid	H	CF ₃	OH	NH-methyl	
	amino acid	H	CF ₃	OH	NH-ethyl	
	amino acid	H	CF ₃	OH	NH-acetyl	
	amino acid	H	CF ₃	OH	OH	
	amino acid	H	CF ₃	OH	OMe	
	amino acid	H	CF ₃	OH	OEt	
60	amino acid	H	CF ₃	OH	O-cyclopropyl	
	amino acid	H	CF ₃	OH	O-acetyl	
	amino acid	H	CF ₃	OH	SH	
	amino acid	H	CF ₃	OH	SMe	
	amino acid	H	CF ₃	OH	SEt	
	amino acid	H	CF ₃	OH	S-cyclopropyl	
	amino acid	H	CF ₃	OH	F	
	65	amino acid	H	CF ₃	OH	Cl
	amino acid	H	CF ₃	OH	Br	

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
amino acid	H	CF ₃	OH	I
amino acid	acyl	CF ₃	OH	H
amino acid	acyl	CF ₃	OH	NH ₂
amino acid	acyl	CF ₃	OH	NH-cyclopropyl
amino acid	acyl	CF ₃	OH	NH-methyl
amino acid	acyl	CF ₃	OH	NH-ethyl
amino acid	acyl	CF ₃	OH	NH-acetyl
amino acid	acyl	CF ₃	OH	OH
amino acid	acyl	CF ₃	OH	OMe
amino acid	acyl	CF ₃	OH	OEt
amino acid	acyl	CF ₃	OH	O-cyclopropyl
amino acid	acyl	CF ₃	OH	O-acetyl
amino acid	acyl	CF ₃	OH	SH
amino acid	acyl	CF ₃	OH	SMe
amino acid	acyl	CF ₃	OH	SEt
amino acid	acyl	CF ₃	OH	S-cyclopropyl
amino acid	acyl	CF ₃	OH	F
amino acid	acyl	CF ₃	OH	Cl
amino acid	acyl	CF ₃	OH	Br
amino acid	acyl	CF ₃	OH	I
acyl	H	Br	OH	H
acyl	H	Br	OH	NH ₂
acyl	H	Br	OH	NH-cyclopropyl
acyl	H	Br	OH	NH-methyl
acyl	H	Br	OH	NH-ethyl
acyl	H	Br	OH	NH-acetyl
acyl	H	Br	OH	OH
acyl	H	Br	OH	OMe
acyl	H	Br	OH	OEt
acyl	H	Br	OH	O-cyclopropyl
acyl	H	Br	OH	O-acetyl
acyl	H	Br	OH	SH
acyl	H	Br	OH	SMe
acyl	H	Br	OH	SEt
acyl	H	Br	OH	S-cyclopropyl
acyl	H	Br	OH	F
acyl	H	Br	OH	Cl
acyl	H	Br	OH	Br
acyl	H	Br	OH	I
acyl	acyl	Br	OH	H
acyl	acyl	Br	OH	NH ₂
acyl	acyl	Br	OH	NH-cyclopropyl
acyl	acyl	Br	OH	NH-methyl
acyl	acyl	Br	OH	NH-ethyl
acyl	acyl	Br	OH	NH-acetyl
acyl	acyl	Br	OH	OH
acyl	acyl	Br	OH	OMe
acyl	acyl	Br	OH	OEt
acyl	acyl	Br	OH	O-cyclopropyl
acyl	acyl	Br	OH	O-acetyl
acyl	acyl	Br	OH	SH
acyl	acyl	Br	OH	SMe
acyl	acyl	Br	OH	SEt
acyl	acyl	Br	OH	S-cyclopropyl
acyl	acyl	Br	OH	F
acyl	acyl	Br	OH	Cl
acyl	acyl	Br	OH	Br
acyl	acyl	Br	OH	I
acyl	amino acid	Br	OH	H
acyl	amino acid	Br	OH	NH ₂
acyl	amino acid	Br	OH	NH-cyclopropyl
acyl	amino acid	Br	OH	NH-methyl
acyl	amino acid	Br	OH	NH-ethyl
acyl	amino acid	Br	OH	NH-acetyl
acyl	amino acid	Br	OH	OH
acyl	amino acid	Br	OH	OMe
acyl	amino acid	Br	OH	OEt
acyl	amino acid	Br	OH	O-cyclopropyl
acyl	amino acid	Br	OH	O-acetyl
acyl	amino acid	Br	OH	SH
acyl	amino acid	Br	OH	SMe
acyl	amino acid	Br	OH	SEt
acyl	amino acid	Br	OH	S-cyclopropyl
acyl	amino acid	Br	OH	F
acyl	amino acid	Br	OH	Cl
acyl	amino acid	Br	OH	Br
acyl	amino acid	Br	OH	I
acyl	amino acid	Br	OH	H
acyl	amino acid	Br	OH	NH ₂
acyl	amino acid	Br	OH	NH-cyclopropyl
acyl	amino acid	Br	OH	NH-methyl
acyl	amino acid	Br	OH	NH-ethyl
acyl	amino acid	Br	OH	NH-acetyl
acyl	amino acid	Br	OH	OH
acyl	amino acid	Br	OH	OMe
acyl	amino acid	Br	OH	OEt
acyl	amino acid	Br	OH	O-cyclopropyl
acyl	amino acid	Br	OH	O-acetyl
acyl	amino acid	Br	OH	SH
acyl	amino acid	Br	OH	SMe
acyl	amino acid	Br	OH	SEt
acyl	amino acid	Br	OH	S-cyclopropyl
acyl	amino acid	Br	OH	F
acyl	amino acid	Br	OH	Cl
acyl	amino acid	Br	OH	Br
acyl	amino acid	Br	OH	I
acyl	amino acid	Br	OH	H

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
5 H	acyl	Br	OH	H
H	acyl	Br	OH	NH ₂
H	acyl	Br	OH	NH-cyclopropyl
H	acyl	Br	OH	NH-methyl
H	acyl	Br	OH	NH-ethyl
H	acyl	Br	OH	NH-acetyl
10 H	acyl	Br	OH	OH
H	acyl	Br	OH	OMe
H	acyl	Br	OH	OEt
H	acyl	Br	OH	O-cyclopropyl
H	acyl	Br	OH	O-acetyl
H	acyl	Br	OH	SH
15 H	acyl	Br	OH	SMe
H	acyl	Br	OH	SEt
H	acyl	Br	OH	S-cyclopropyl
H	acyl	Br	OH	F
H	acyl	Br	OH	Cl
H	acyl	Br	OH	Br
H	acyl	Br	OH	I
20 H	amino acid	Br	OH	H
H	amino acid	Br	OH	NH ₂
H	amino acid	Br	OH	NH-cyclopropyl
H	amino acid	Br	OH	NH-methyl
H	amino acid	Br	OH	NH-ethyl
H	amino acid	Br	OH	NH-acetyl
25 H	amino acid	Br	OH	OH
H	amino acid	Br	OH	OMe
H	amino acid	Br	OH	OEt
H	amino acid	Br	OH	O-cyclopropyl
H	amino acid	Br	OH	O-acetyl
H	amino acid	Br	OH	SH
30 H	amino acid	Br	OH	SMe
H	amino acid	Br	OH	SEt
H	amino acid	Br	OH	S-cyclopropyl
H	amino acid	Br	OH	F
H	amino acid	Br	OH	Cl
H	amino acid	Br	OH	Br
35 H	amino acid	Br	OH	I
amino acid	amino acid	Br	OH	H
amino acid	amino acid	Br	OH	NH ₂
amino acid	amino acid	Br	OH	NH-cyclopropyl
amino acid	amino acid	Br	OH	NH-methyl
amino acid	amino acid	Br	OH	NH-ethyl
amino acid	amino acid	Br	OH	NH-acetyl
40 amino acid	amino acid	Br	OH	OH
amino acid	amino acid	Br	OH	OMe
amino acid	amino acid	Br	OH	OEt
amino acid	amino acid	Br	OH	O-cyclopropyl
amino acid	amino acid	Br	OH	O-acetyl
amino acid	amino acid	Br	OH	SH
45 amino acid	amino acid	Br	OH	SMe
amino acid	amino acid	Br	OH	SEt
amino acid	amino acid	Br	OH	S-cyclopropyl
amino acid	amino acid	Br	OH	F
amino acid	amino acid	Br	OH	Cl
amino acid	amino acid	Br	OH	Br
50 amino acid	amino acid	Br	OH	I
amino acid	H	Br	OH	H
amino acid	H	Br	OH	NH ₂
amino acid	H	Br	OH	NH-cyclopropyl
amino acid	H	Br	OH	NH-methyl
amino acid	H	Br	OH	NH-ethyl
55 amino acid	H	Br	OH	NH-acetyl
amino acid	H	Br	OH	OH
amino acid	H	Br	OH	OMe
amino acid	H	Br	OH	OEt
amino acid	H	Br	OH	O-cyclopropyl
amino acid	H	Br	OH	O-acetyl
60 amino acid	H	Br	OH	SH
amino acid	H	Br	OH	SMe
amino acid	H	Br	OH	SEt
amino acid	H	Br	OH	S-cyclopropyl
amino acid	H	Br	OH	F
amino acid	H	Br	OH	Cl
65 amino acid	H	Br	OH	I
amino acid	acyl	Br	OH	H

TABLE 1-continued

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TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
amino acid	acyl	Cl	OH	NH-methyl
amino acid	acyl	Cl	OH	NH-ethyl
amino acid	acyl	Cl	OH	NH-acetyl
amino acid	acyl	Cl	OH	OH
amino acid	acyl	Cl	OH	OMe
amino acid	acyl	Cl	OH	OEt
amino acid	acyl	Cl	OH	O-cyclopropyl
amino acid	acyl	Cl	OH	O-acetyl
amino acid	acyl	Cl	OH	SH
amino acid	acyl	Cl	OH	SMe
amino acid	acyl	Cl	OH	SEt
amino acid	acyl	Cl	OH	S-cyclopropyl
amino acid	acyl	Cl	OH	F
amino acid	acyl	Cl	OH	Cl
amino acid	acyl	Cl	OH	Br
amino acid	acyl	Cl	OH	I
acyl	H	F	OH	H
acyl	H	F	OH	NH ₂
acyl	H	F	OH	NH-cyclopropyl
acyl	H	F	OH	NH-methyl
acyl	H	F	OH	NH-ethyl
acyl	H	F	OH	NH-acetyl
acyl	H	F	OH	OH
acyl	H	F	OH	OMe
acyl	H	F	OH	OEt
acyl	H	F	OH	O-cyclopropyl
acyl	H	F	OH	O-acetyl
acyl	H	F	OH	SH
acyl	H	F	OH	SMe
acyl	H	F	OH	SEt
acyl	H	F	OH	S-cyclopropyl
acyl	H	F	OH	F
acyl	H	F	OH	Cl
acyl	H	F	OH	Br
acyl	H	F	OH	I
acyl	acyl	F	OH	H
acyl	acyl	F	OH	NH ₂
acyl	acyl	F	OH	NH-cyclopropyl
acyl	acyl	F	OH	NH-methyl
acyl	acyl	F	OH	NH-ethyl
acyl	acyl	F	OH	NH-acetyl
acyl	acyl	F	OH	OH
acyl	acyl	F	OH	OMe
acyl	acyl	F	OH	OEt
acyl	acyl	F	OH	O-cyclopropyl
acyl	acyl	F	OH	O-acetyl
acyl	acyl	F	OH	SH
acyl	acyl	F	OH	SMe
acyl	acyl	F	OH	SEt
acyl	acyl	F	OH	S-cyclopropyl
acyl	acyl	F	OH	F
acyl	acyl	F	OH	Cl
acyl	acyl	F	OH	Br
acyl	acyl	F	OH	I
acyl	amino acid	F	OH	H
acyl	amino acid	F	OH	NH ₂
acyl	amino acid	F	OH	NH-cyclopropyl
acyl	amino acid	F	OH	NH-methyl
acyl	amino acid	F	OH	NH-ethyl
acyl	amino acid	F	OH	NH-acetyl
acyl	amino acid	F	OH	OH
acyl	amino acid	F	OH	OMe
acyl	amino acid	F	OH	OEt
acyl	amino acid	F	OH	O-cyclopropyl
acyl	amino acid	F	OH	O-acetyl
acyl	amino acid	F	OH	SH
acyl	amino acid	F	OH	SMe
acyl	amino acid	F	OH	SEt
acyl	amino acid	F	OH	S-cyclopropyl
acyl	amino acid	F	OH	F
acyl	amino acid	F	OH	Cl
acyl	amino acid	F	OH	Br
acyl	amino acid	F	OH	I
H	acyl	F	OH	H
H	acyl	F	OH	NH ₂
H	acyl	F	OH	NH-cyclopropyl
H	acyl	F	OH	NH-methyl

TABLE 1-continued

	R ²	R ³	X ¹	X ²	Y
5	H	acyl	F	OH	NH-ethyl
	H	acyl	F	OH	NH-acetyl
	H	acyl	F	OH	OH
	H	acyl	F	OH	OMe
	H	acyl	F	OH	OEt
	H	acyl	F	OH	O-cyclopropyl
10	H	acyl	F	OH	O-acetyl
	H	acyl	F	OH	SH
	H	acyl	F	OH	SMe
	H	acyl	F	OH	SEt
	H	acyl	F	OH	S-cyclopropyl
	H	acyl	F	OH	F
15	H	acyl	F	OH	Cl
	H	acyl	F	OH	Br
	H	acyl	F	OH	I
	H	amino acid	F	OH	H
	H	amino acid	F	OH	NH ₂
	H	amino acid	F	OH	NH-cyclopropyl
20	H	amino acid	F	OH	NH-methyl
	H	amino acid	F	OH	NH-ethyl
	H	amino acid	F	OH	NH-acetyl
	H	amino acid	F	OH	OH
	H	amino acid	F	OH	OMe
	H	amino acid	F	OH	OEt
	H	amino acid	F	OH	O-cyclopropyl
25	H	amino acid	F	OH	O-acetyl
	H	amino acid	F	OH	SH
	H	amino acid	F	OH	SMe
	H	amino acid	F	OH	SEt
	H	amino acid	F	OH	S-cyclopropyl
	H	amino acid	F	OH	F
30	H	amino acid	F	OH	Cl
	H	amino acid	F	OH	Br
	H	amino acid	F	OH	I
	amino acid	amino acid	F	OH	H
	amino acid	amino acid	F	OH	NH ₂
	amino acid	amino acid	F	OH	NH-cyclopropyl
35	amino acid	amino acid	F	OH	NH-methyl
	amino acid	amino acid	F	OH	NH-ethyl
	amino acid	amino acid	F	OH	NH-acetyl
	amino acid	amino acid	F	OH	OH
	amino acid	amino acid	F	OH	OMe
	amino acid	amino acid	F	OH	OEt
40	amino acid	amino acid	F	OH	O-cyclopropyl
	amino acid	amino acid	F	OH	O-acetyl
	amino acid	amino acid	F	OH	SH
	amino acid	amino acid	F	OH	SMe
	amino acid	amino acid	F	OH	SEt
	amino acid	amino acid	F	OH	S-cyclopropyl
	amino acid	amino acid	F	OH	F
45	amino acid	amino acid	F	OH	Cl
	amino acid	amino acid	F	OH	Br
	amino acid	amino acid	F	OH	I
	amino acid	H	F	OH	H
	amino acid	H	F	OH	NH ₂
	amino acid	H	F	OH	NH-cyclopropyl
50	amino acid	H	F	OH	NH-methyl
	amino acid	H	F	OH	NH-ethyl
	amino acid	H	F	OH	NH-acetyl
	amino acid	H	F	OH	OH
	amino acid	H	F	OH	OMe
	amino acid	H	F	OH	OEt
55	amino acid	H	F	OH	O-cyclopropyl
	amino acid	H	F	OH	O-acetyl
	amino acid	H	F	OH	SH
	amino acid	H	F	OH	SMe
	amino acid	H	F	OH	SEt
	amino acid	H	F	OH	S-cyclopropyl
	amino acid	H	F	OH	F
60	amino acid	H	F	OH	Cl
	amino acid	H	F	OH	Br
	amino acid	H	F	OH	I
	amino acid	acyl	F	OH	H
	amino acid	acyl	F	OH	NH ₂
65	amino acid	acyl	F	OH	NH-cyclopropyl
	amino acid	acyl	F	OH	NH-methyl
	amino acid	acyl	F	OH	NH-ethyl

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
amino acid	acyl	F	OH	NH-acetyl
amino acid	acyl	F	OH	OH
amino acid	acyl	F	OH	OMe
amino acid	acyl	F	OH	OEt
amino acid	acyl	F	OH	O-cyclopropyl
amino acid	acyl	F	OH	O-acetyl
amino acid	acyl	F	OH	SH
amino acid	acyl	F	OH	SMe
amino acid	acyl	F	OH	SEt
amino acid	acyl	F	OH	S-cyclopropyl
amino acid	acyl	F	OH	F
amino acid	acyl	F	OH	Cl
amino acid	acyl	F	OH	Br
amino acid	acyl	F	OH	I
acyl	H	NH ₂	OH	H
acyl	H	NH ₂	OH	NH ₂
acyl	H	NH ₂	OH	NH-cyclopropyl
acyl	H	NH ₂	OH	NH-methyl
acyl	H	NH ₂	OH	NH-ethyl
acyl	H	NH ₂	OH	NH-acetyl
acyl	H	NH ₂	OH	OH
acyl	H	NH ₂	OH	OMe
acyl	H	NH ₂	OH	OEt
acyl	H	NH ₂	OH	O-cyclopropyl
acyl	H	NH ₂	OH	O-acetyl
acyl	H	NH ₂	OH	SH
acyl	H	NH ₂	OH	SMe
acyl	H	NH ₂	OH	SEt
acyl	H	NH ₂	OH	S-cyclopropyl
acyl	H	NH ₂	OH	F
acyl	H	NH ₂	OH	Cl
acyl	H	NH ₂	OH	Br
acyl	H	NH ₂	OH	I
acyl	acyl	NH ₂	OH	H
acyl	acyl	NH ₂	OH	NH ₂
acyl	acyl	NH ₂	OH	NH-cyclopropyl
acyl	acyl	NH ₂	OH	NH-methyl
acyl	acyl	NH ₂	OH	NH-ethyl
acyl	acyl	NH ₂	OH	NH-acetyl
acyl	acyl	NH ₂	OH	OH
acyl	acyl	NH ₂	OH	OMe
acyl	acyl	NH ₂	OH	OEt
acyl	acyl	NH ₂	OH	O-cyclopropyl
acyl	acyl	NH ₂	OH	O-acetyl
acyl	acyl	NH ₂	OH	SH
acyl	acyl	NH ₂	OH	SMe
acyl	acyl	NH ₂	OH	SEt
acyl	acyl	NH ₂	OH	S-cyclopropyl
acyl	acyl	NH ₂	OH	F
acyl	acyl	NH ₂	OH	Cl
acyl	acyl	NH ₂	OH	Br
acyl	acyl	NH ₂	OH	I
acyl	amino acid	NH ₂	OH	H
acyl	amino acid	NH ₂	OH	NH ₂
acyl	amino acid	NH ₂	OH	NH-cyclopropyl
acyl	amino acid	NH ₂	OH	NH-methyl
acyl	amino acid	NH ₂	OH	NH-ethyl
acyl	amino acid	NH ₂	OH	NH-acetyl
acyl	amino acid	NH ₂	OH	OH
acyl	amino acid	NH ₂	OH	OMe
acyl	amino acid	NH ₂	OH	OEt
acyl	amino acid	NH ₂	OH	O-cyclopropyl
acyl	amino acid	NH ₂	OH	O-acetyl
acyl	amino acid	NH ₂	OH	SH
acyl	amino acid	NH ₂	OH	SMe
acyl	amino acid	NH ₂	OH	SEt
acyl	amino acid	NH ₂	OH	S-cyclopropyl
acyl	amino acid	NH ₂	OH	F
acyl	amino acid	NH ₂	OH	Cl
acyl	amino acid	NH ₂	OH	Br
acyl	amino acid	NH ₂	OH	I
H	acyl	NH ₂	OH	H
H	acyl	NH ₂	OH	NH ₂
H	acyl	NH ₂	OH	NH-cyclopropyl
H	acyl	NH ₂	OH	NH-methyl
H	acyl	NH ₂	OH	NH-ethyl
H	acyl	NH ₂	OH	NH-acetyl

TABLE 1-continued

	R ²	R ³	X ¹	X ²	Y	
5	H	acyl	NH ₂	OH	OH	
	H	acyl	NH ₂	OH	OMe	
	H	acyl	NH ₂	OH	OEt	
	H	acyl	NH ₂	OH	O-cyclopropyl	
	H	acyl	NH ₂	OH	O-acetyl	
10	H	acyl	NH ₂	OH	SH	
	H	acyl	NH ₂	OH	SMe	
	H	acyl	NH ₂	OH	SEt	
	H	acyl	NH ₂	OH	S-cyclopropyl	
	H	acyl	NH ₂	OH	F	
	H	acyl	NH ₂	OH	Cl	
	H	acyl	NH ₂	OH	Br	
	H	acyl	NH ₂	OH	I	
	15	H	amino acid	NH ₂	OH	H
		H	amino acid	NH ₂	OH	NH ₂
H		amino acid	NH ₂	OH	NH-cyclopropyl	
H		amino acid	NH ₂	OH	NH-methyl	
H		amino acid	NH ₂	OH	NH-ethyl	
20	H	amino acid	NH ₂	OH	NH-acetyl	
	H	amino acid	NH ₂	OH	OH	
	H	amino acid	NH ₂	OH	OMe	
	H	amino acid	NH ₂	OH	OEt	
	H	amino acid	NH ₂	OH	O-cyclopropyl	
	H	amino acid	NH ₂	OH	O-acetyl	
	H	amino acid	NH ₂	OH	SH	
	25	H	amino acid	NH ₂	OH	SMe
		H	amino acid	NH ₂	OH	SEt
		H	amino acid	NH ₂	OH	S-cyclopropyl
H		amino acid	NH ₂	OH	F	
H		amino acid	NH ₂	OH	Cl	
30	H	amino acid	NH ₂	OH	Br	
	H	amino acid	NH ₂	OH	I	
	amino acid	amino acid	NH ₂	OH	H	
	amino acid	amino acid	NH ₂	OH	NH ₂	
	amino acid	amino acid	NH ₂	OH	NH-cyclopropyl	
	amino acid	amino acid	NH ₂	OH	NH-methyl	
	amino acid	amino acid	NH ₂	OH	NH-ethyl	
	35	amino acid	amino acid	NH ₂	OH	NH-acetyl
		amino acid	amino acid	NH ₂	OH	OH
		amino acid	amino acid	NH ₂	OH	OMe
amino acid		amino acid	NH ₂	OH	OEt	
amino acid		amino acid	NH ₂	OH	O-cyclopropyl	
	amino acid	amino acid	NH ₂	OH	O-acetyl	
	amino acid	amino acid	NH ₂	OH	SH	
	40	amino acid	amino acid	NH ₂	OH	SMe
		amino acid	amino acid	NH ₂	OH	SEt
		amino acid	amino acid	NH ₂	OH	S-cyclopropyl
amino acid		amino acid	NH ₂	OH	F	
amino acid		amino acid	NH ₂	OH	Cl	
	amino acid	amino acid	NH ₂	OH	Br	
	45	amino acid	amino acid	NH ₂	OH	I
		amino acid	H	NH ₂	OH	H
		amino acid	H	NH ₂	OH	NH ₂
		amino acid	H	NH ₂	OH	NH-cyclopropyl
amino acid		H	NH ₂	OH	NH-methyl	
	amino acid	H	NH ₂	OH	NH-ethyl	
	50	amino acid	H	NH ₂	OH	NH-acetyl
		amino acid	H	NH ₂	OH	OH
		amino acid	H	NH ₂	OH	OMe
		amino acid	H	NH ₂	OH	OEt
amino acid		H	NH ₂	OH	O-cyclopropyl	
	amino acid	H	NH ₂	OH	O-acetyl	
	55	amino acid	H	NH ₂	OH	SH
		amino acid	H	NH ₂	OH	SMe
		amino acid	H	NH ₂	OH	SEt
		amino acid	H	NH ₂	OH	S-cyclopropyl
amino acid		H	NH ₂	OH	F	
	amino acid	H	NH ₂	OH	Cl	
	60	amino acid	H	NH ₂	OH	Br
		amino acid	H	NH ₂	OH	I
		amino acid	acyl	NH ₂	OH	H
		amino acid	acyl	NH ₂	OH	NH ₂
amino acid		acyl	NH ₂	OH	NH-cyclopropyl	
	amino acid	acyl	NH ₂	OH	NH-methyl	
	65	amino acid	acyl	NH ₂	OH	NH-ethyl
		amino acid	acyl	NH ₂	OH	NH-acetyl
		amino acid	acyl	NH ₂	OH	OH

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
amino acid	acyl	NH ₂	OH	OMe
amino acid	acyl	NH ₂	OH	OEt
amino acid	acyl	NH ₂	OH	O-cyclopropyl
amino acid	acyl	NH ₂	OH	O-acetyl
amino acid	acyl	NH ₂	OH	SH
amino acid	acyl	NH ₂	OH	SMe
amino acid	acyl	NH ₂	OH	SEt
amino acid	acyl	NH ₂	OH	S-cyclopropyl
amino acid	acyl	NH ₂	OH	F
amino acid	acyl	NH ₂	OH	Cl
amino acid	acyl	NH ₂	OH	Br
acyl	H	SH	OH	H
acyl	H	SH	OH	NH ₂
acyl	H	SH	OH	NH-cyclopropyl
acyl	H	SH	OH	NH-methyl
acyl	H	SH	OH	NH-ethyl
acyl	H	SH	OH	NH-acetyl
acyl	H	SH	OH	OH
acyl	H	SH	OH	OMe
acyl	H	SH	OH	OEt
acyl	H	SH	OH	O-cyclopropyl
acyl	H	SH	OH	O-acetyl
acyl	H	SH	OH	SH
acyl	H	SH	OH	SMe
acyl	H	SH	OH	SEt
acyl	H	SH	OH	S-cyclopropyl
acyl	H	SH	OH	F
acyl	H	SH	OH	Cl
acyl	H	SH	OH	Br
acyl	H	SH	OH	I
acyl	H	SH	OH	H
acyl	acyl	SH	OH	NH ₂
acyl	acyl	SH	OH	NH-cyclopropyl
acyl	acyl	SH	OH	NH-methyl
acyl	acyl	SH	OH	NH-ethyl
acyl	acyl	SH	OH	NH-acetyl
acyl	acyl	SH	OH	OH
acyl	acyl	SH	OH	OMe
acyl	acyl	SH	OH	OEt
acyl	acyl	SH	OH	O-cyclopropyl
acyl	acyl	SH	OH	O-acetyl
acyl	acyl	SH	OH	SH
acyl	acyl	SH	OH	SMe
acyl	acyl	SH	OH	SEt
acyl	acyl	SH	OH	S-cyclopropyl
acyl	acyl	SH	OH	F
acyl	acyl	SH	OH	Cl
acyl	acyl	SH	OH	Br
acyl	acyl	SH	OH	I
acyl	amino acid	SH	OH	H
acyl	amino acid	SH	OH	NH ₂
acyl	amino acid	SH	OH	NH-cyclopropyl
acyl	amino acid	SH	OH	NH-methyl
acyl	amino acid	SH	OH	NH-ethyl
acyl	amino acid	SH	OH	NH-acetyl
acyl	amino acid	SH	OH	OH
acyl	amino acid	SH	OH	OMe
acyl	amino acid	SH	OH	OEt
acyl	amino acid	SH	OH	O-cyclopropyl
acyl	amino acid	SH	OH	O-acetyl
acyl	amino acid	SH	OH	SH
acyl	amino acid	SH	OH	SMe
acyl	amino acid	SH	OH	SEt
acyl	amino acid	SH	OH	S-cyclopropyl
acyl	amino acid	SH	OH	F
acyl	amino acid	SH	OH	Cl
acyl	amino acid	SH	OH	Br
acyl	amino acid	SH	OH	I
H	acyl	SH	OH	H
H	acyl	SH	OH	NH ₂
H	acyl	SH	OH	NH-cyclopropyl
H	acyl	SH	OH	NH-methyl
H	acyl	SH	OH	NH-ethyl
H	acyl	SH	OH	NH-acetyl
H	acyl	SH	OH	OH
H	acyl	SH	OH	OMe

TABLE 1-continued

	R ²	R ³	X ¹	X ²	Y
5	H	acyl	SH	OH	OEt
	H	acyl	SH	OH	O-cyclopropyl
	H	acyl	SH	OH	O-acetyl
	H	acyl	SH	OH	SH
	H	acyl	SH	OH	SMe
	H	acyl	SH	OH	SEt
10	H	acyl	SH	OH	S-cyclopropyl
	H	acyl	SH	OH	F
	H	acyl	SH	OH	Cl
	H	acyl	SH	OH	Br
	H	acyl	SH	OH	I
	H	amino acid	SH	OH	H
15	H	amino acid	SH	OH	NH ₂
	H	amino acid	SH	OH	NH-cyclopropyl
	H	amino acid	SH	OH	NH-methyl
	H	amino acid	SH	OH	NH-ethyl
	H	amino acid	SH	OH	NH-acetyl
	H	amino acid	SH	OH	OH
20	H	amino acid	SH	OH	OMe
	H	amino acid	SH	OH	OEt
	H	amino acid	SH	OH	O-cyclopropyl
	H	amino acid	SH	OH	O-acetyl
	H	amino acid	SH	OH	SH
	H	amino acid	SH	OH	SMe
	H	amino acid	SH	OH	SEt
25	H	amino acid	SH	OH	S-cyclopropyl
	H	amino acid	SH	OH	F
	H	amino acid	SH	OH	Cl
	H	amino acid	SH	OH	Br
	H	amino acid	SH	OH	I
	amino acid	amino acid	SH	OH	H
30	amino acid	amino acid	SH	OH	NH ₂
	amino acid	amino acid	SH	OH	NH-cyclopropyl
	amino acid	amino acid	SH	OH	NH-methyl
	amino acid	amino acid	SH	OH	NH-ethyl
	amino acid	amino acid	SH	OH	NH-acetyl
	amino acid	amino acid	SH	OH	OH
35	amino acid	amino acid	SH	OH	OMe
	amino acid	amino acid	SH	OH	OEt
	amino acid	amino acid	SH	OH	O-cyclopropyl
	amino acid	amino acid	SH	OH	O-acetyl
	amino acid	amino acid	SH	OH	SH
	amino acid	amino acid	SH	OH	SMe
	amino acid	amino acid	SH	OH	SEt
40	amino acid	amino acid	SH	OH	S-cyclopropyl
	amino acid	amino acid	SH	OH	F
	amino acid	amino acid	SH	OH	Cl
	amino acid	amino acid	SH	OH	Br
	amino acid	amino acid	SH	OH	I
	amino acid	H	SH	OH	H
45	amino acid	H	SH	OH	NH ₂
	amino acid	H	SH	OH	NH-cyclopropyl
	amino acid	H	SH	OH	NH-methyl
	amino acid	H	SH	OH	NH-ethyl
	amino acid	H	SH	OH	NH-acetyl
	amino acid	H	SH	OH	OH
50	amino acid	H	SH	OH	OMe
	amino acid	H	SH	OH	OEt
	amino acid	H	SH	OH	O-cyclopropyl
	amino acid	H	SH	OH	O-acetyl
	amino acid	H	SH	OH	SH
	amino acid	H	SH	OH	SMe
	amino acid	H	SH	OH	SEt
55	amino acid	H	SH	OH	S-cyclopropyl
	amino acid	H	SH	OH	F
	amino acid	H	SH	OH	Cl
	amino acid	H	SH	OH	Br
	amino acid	H	SH	OH	I
	amino acid	acyl	SH	OH	H
60	amino acid	acyl	SH	OH	NH ₂
	amino acid	acyl	SH	OH	NH-cyclopropyl
	amino acid	acyl	SH	OH	NH-methyl
	amino acid	acyl	SH	OH	NH-ethyl
	amino acid	acyl	SH	OH	NH-acetyl
	amino acid	acyl	SH	OH	OH
65	amino acid	acyl	SH	OH	OMe
	amino acid	acyl	SH	OH	OEt

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
amino acid	acyl	SH	OH	O-cyclopropyl
amino acid	acyl	SH	OH	O-acetyl
amino acid	acyl	SH	OH	SH
amino acid	acyl	SH	OH	SMe
amino acid	acyl	SH	OH	SEt
amino acid	acyl	SH	OH	S-cyclopropyl
amino acid	acyl	SH	OH	F
amino acid	acyl	SH	OH	Cl
amino acid	acyl	SH	OH	Br
amino acid	acyl	SH	OH	I
acyl	H	OH	OH	H
acyl	H	OH	OH	NH ₂
acyl	H	OH	OH	NH-cyclopropyl
acyl	H	OH	OH	NH-methyl
acyl	H	OH	OH	NH-ethyl
acyl	H	OH	OH	NH-acetyl
acyl	H	OH	OH	OH
acyl	H	OH	OH	OMe
acyl	H	OH	OH	OEt
acyl	H	OH	OH	O-cyclopropyl
acyl	H	OH	OH	O-acetyl
acyl	H	OH	OH	SH
acyl	H	OH	OH	SMe
acyl	H	OH	OH	SEt
acyl	H	OH	OH	S-cyclopropyl
acyl	H	OH	OH	F
acyl	H	OH	OH	Cl
acyl	H	OH	OH	Br
acyl	H	OH	OH	I
acyl	acyl	OH	OH	H
acyl	acyl	OH	OH	NH ₂
acyl	acyl	OH	OH	NH-cyclopropyl
acyl	acyl	OH	OH	NH-methyl
acyl	acyl	OH	OH	NH-ethyl
acyl	acyl	OH	OH	NH-acetyl
acyl	acyl	OH	OH	OH
acyl	acyl	OH	OH	OMe
acyl	acyl	OH	OH	OEt
acyl	acyl	OH	OH	O-cyclopropyl
acyl	acyl	OH	OH	O-acetyl
acyl	acyl	OH	OH	SH
acyl	acyl	OH	OH	SMe
acyl	acyl	OH	OH	SEt
acyl	acyl	OH	OH	S-cyclopropyl
acyl	acyl	OH	OH	F
acyl	acyl	OH	OH	Cl
acyl	acyl	OH	OH	Br
acyl	acyl	OH	OH	I
acyl	amino acid	OH	OH	H
acyl	amino acid	OH	OH	NH ₂
acyl	amino acid	OH	OH	NH-cyclopropyl
acyl	amino acid	OH	OH	NH-methyl
acyl	amino acid	OH	OH	NH-ethyl
acyl	amino acid	OH	OH	NH-acetyl
acyl	amino acid	OH	OH	OH
acyl	amino acid	OH	OH	OMe
acyl	amino acid	OH	OH	OEt
acyl	amino acid	OH	OH	O-cyclopropyl
acyl	amino acid	OH	OH	O-acetyl
acyl	amino acid	OH	OH	SH
acyl	amino acid	OH	OH	SMe
acyl	amino acid	OH	OH	SEt
acyl	amino acid	OH	OH	S-cyclopropyl
acyl	amino acid	OH	OH	F
acyl	amino acid	OH	OH	Cl
acyl	amino acid	OH	OH	Br
acyl	amino acid	OH	OH	I
H	acyl	OH	OH	H
H	acyl	OH	OH	NH ₂
H	acyl	OH	OH	NH-cyclopropyl
H	acyl	OH	OH	NH-methyl
H	acyl	OH	OH	NH-ethyl
H	acyl	OH	OH	NH-acetyl
H	acyl	OH	OH	OH
H	acyl	OH	OH	OMe
H	acyl	OH	OH	OEt
H	acyl	OH	OH	O-cyclopropyl

TABLE 1-continued

	R ²	R ³	X ¹	X ²	Y
5	H	acyl	OH	OH	O-acetyl
	H	acyl	OH	OH	SH
	H	acyl	OH	OH	SMe
	H	acyl	OH	OH	SEt
	H	acyl	OH	OH	S-cyclopropyl
	H	acyl	OH	OH	F
10	H	acyl	OH	OH	Cl
	H	acyl	OH	OH	Br
	H	acyl	OH	OH	I
	H	amino acid	OH	OH	H
	H	amino acid	OH	OH	NH ₂
	H	amino acid	OH	OH	NH-cyclopropyl
15	H	amino acid	OH	OH	NH-methyl
	H	amino acid	OH	OH	NH-ethyl
	H	amino acid	OH	OH	NH-acetyl
	H	amino acid	OH	OH	OH
	H	amino acid	OH	OH	OMe
	H	amino acid	OH	OH	OEt
	H	amino acid	OH	OH	O-cyclopropyl
20	H	amino acid	OH	OH	O-acetyl
	H	amino acid	OH	OH	SH
	H	amino acid	OH	OH	SMe
	H	amino acid	OH	OH	SEt
	H	amino acid	OH	OH	S-cyclopropyl
	H	amino acid	OH	OH	F
25	H	amino acid	OH	OH	Cl
	H	amino acid	OH	OH	Br
	H	amino acid	OH	OH	I
	amino acid	amino acid	OH	OH	H
	amino acid	amino acid	OH	OH	NH ₂
	amino acid	amino acid	OH	OH	NH-cyclopropyl
30	amino acid	amino acid	OH	OH	NH-methyl
	amino acid	amino acid	OH	OH	NH-ethyl
	amino acid	amino acid	OH	OH	NH-acetyl
	amino acid	amino acid	OH	OH	OH
	amino acid	amino acid	OH	OH	OMe
	amino acid	amino acid	OH	OH	OEt
35	amino acid	amino acid	OH	OH	O-cyclopropyl
	amino acid	amino acid	OH	OH	O-acetyl
	amino acid	amino acid	OH	OH	SH
	amino acid	amino acid	OH	OH	SMe
	amino acid	amino acid	OH	OH	SEt
	amino acid	amino acid	OH	OH	S-cyclopropyl
40	amino acid	amino acid	OH	OH	F
	amino acid	amino acid	OH	OH	Cl
	amino acid	amino acid	OH	OH	Br
	amino acid	amino acid	OH	OH	I
	amino acid	H	OH	OH	H
	amino acid	H	OH	OH	NH ₂
45	amino acid	H	OH	OH	NH-cyclopropyl
	amino acid	H	OH	OH	NH-methyl
	amino acid	H	OH	OH	NH-ethyl
	amino acid	H	OH	OH	NH-acetyl
	amino acid	H	OH	OH	OH
	amino acid	H	OH	OH	OMe
	amino acid	H	OH	OH	OEt
50	amino acid	H	OH	OH	O-cyclopropyl
	amino acid	H	OH	OH	O-acetyl
	amino acid	H	OH	OH	SH
	amino acid	H	OH	OH	SMe
	amino acid	H	OH	OH	SEt
	amino acid	H	OH	OH	S-cyclopropyl
55	amino acid	H	OH	OH	F
	amino acid	H	OH	OH	Cl
	amino acid	H	OH	OH	Br
	amino acid	H	OH	OH	I
	amino acid	acyl	OH	OH	H
	amino acid	acyl	OH	OH	NH ₂
60	amino acid	acyl	OH	OH	NH-cyclopropyl
	amino acid	acyl	OH	OH	NH-methyl
	amino acid	acyl	OH	OH	NH-ethyl
	amino acid	acyl	OH	OH	NH-acetyl
	amino acid	acyl	OH	OH	OH
	amino acid	acyl	OH	OH	OMe
	amino acid	acyl	OH	OH	OEt
65	amino acid	acyl	OH	OH	O-cyclopropyl
	amino acid	acyl	OH	OH	O-acetyl

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
amino acid	acyl	OH	OH	SH
amino acid	acyl	OH	OH	SMe
amino acid	acyl	OH	OH	SEt
amino acid	acyl	OH	OH	S-cyclopropyl
amino acid	acyl	OH	OH	F
amino acid	acyl	OH	OH	Cl
amino acid	acyl	OH	OH	Br
amino acid	acyl	OH	OH	I
acyl	H	CH ₃	H	H
acyl	H	CH ₃	H	NH ₂
acyl	H	CH ₃	H	NH-cyclopropyl
acyl	H	CH ₃	H	NH-methyl
acyl	H	CH ₃	H	NH-ethyl
acyl	H	CH ₃	H	NH-acetyl
acyl	H	CH ₃	H	OH
acyl	H	CH ₃	H	OMe
acyl	H	CH ₃	H	OEt
acyl	H	CH ₃	H	O-cyclopropyl
acyl	H	CH ₃	H	O-acetyl
acyl	H	CH ₃	H	SH
acyl	H	CH ₃	H	SMe
acyl	H	CH ₃	H	SEt
acyl	H	CH ₃	H	S-cyclopropyl
acyl	H	CH ₃	H	F
acyl	H	CH ₃	H	Cl
acyl	H	CH ₃	H	Br
acyl	H	CH ₃	H	I
acyl	acyl	CH ₃	H	H
acyl	acyl	CH ₃	H	NH ₂
acyl	acyl	CH ₃	H	NH-cyclopropyl
acyl	acyl	CH ₃	H	NH-methyl
acyl	acyl	CH ₃	H	NH-ethyl
acyl	acyl	CH ₃	H	NH-acetyl
acyl	acyl	CH ₃	H	OH
acyl	acyl	CH ₃	H	OMe
acyl	acyl	CH ₃	H	OEt
acyl	acyl	CH ₃	H	O-cyclopropyl
acyl	acyl	CH ₃	IT	O-acetyl
acyl	acyl	CH ₃	H	SIT
acyl	acyl	CH ₃	IT	SMe
acyl	acyl	CH ₃	H	SEt
acyl	acyl	CH ₃	H	S-cyclopropyl
acyl	acyl	CH ₃	H	F
acyl	acyl	CH ₃	H	Cl
acyl	acyl	CH ₃	H	Br
acyl	acyl	CH ₃	H	I
acyl	amino acid	CH ₃	H	H
acyl	amino acid	CH ₃	H	NH ₂
acyl	amino acid	CH ₃	H	NH-cyclopropyl
acyl	amino acid	CH ₃	H	NH-methyl
acyl	amino acid	CH ₃	H	NH-ethyl
acyl	amino acid	CH ₃	H	NH-acetyl
acyl	amino acid	CH ₃	H	OH
acyl	amino acid	CH ₃	H	OMe
acyl	amino acid	CH ₃	H	OEt
acyl	amino acid	CH ₃	H	O-cyclopropyl
acyl	amino acid	CH ₃	H	O-acetyl
acyl	amino acid	CH ₃	H	SH
acyl	amino acid	CH ₃	H	SMe
acyl	amino acid	CH ₃	H	SEt
acyl	amino acid	CH ₃	H	S-cyclopropyl
acyl	amino acid	CH ₃	H	F
acyl	amino acid	CH ₃	H	Cl
acyl	amino acid	CH ₃	H	Br
acyl	amino acid	CH ₃	H	I
H	acyl	CH ₃	H	H
H	acyl	CH ₃	H	NH ₂
H	acyl	CH ₃	H	NH-cyclopropyl
H	acyl	CH ₃	H	NH-methyl
H	acyl	CH ₃	H	NH-ethyl
H	acyl	CH ₃	H	NH-acetyl
H	acyl	CH ₃	H	OH
H	acyl	CH ₃	H	OMe
H	acyl	CH ₃	H	OEt
H	acyl	CH ₃	H	O-cyclopropyl
H	acyl	CH ₃	H	O-acetyl
H	acyl	CH ₃	H	SH

TABLE 1-continued

	R ²	R ³	X ¹	X ²	Y
5	H	acyl	CH ₃	H	SMe
	H	acyl	CH ₃	H	SEt
	H	acyl	CH ₃	H	S-cyclopropyl
	H	acyl	CH ₃	H	F
	H	acyl	CH ₃	H	Cl
	H	acyl	CH ₃	H	Br
10	H	acyl	CH ₃	H	I
	H	amino acid	CH ₃	H	H
	H	amino acid	CH ₃	H	NH ₂
	H	amino acid	CH ₃	H	NH-cyclopropyl
	H	amino acid	CH ₃	H	NH-methyl
	H	amino acid	CH ₃	H	NH-ethyl
15	H	amino acid	CH ₃	H	NH-acetyl
	H	amino acid	CH ₃	H	OH
	H	amino acid	CH ₃	H	OMe
	H	amino acid	CH ₃	H	OEt
	H	amino acid	CH ₃	H	O-cyclopropyl
	H	amino acid	CH ₃	H	O-acetyl
20	H	amino acid	CH ₃	H	SH
	H	amino acid	CH ₃	H	SMe
	H	amino acid	CH ₃	H	SEt
	H	amino acid	CH ₃	H	S-cyclopropyl
	H	amino acid	CH ₃	H	F
	H	amino acid	CH ₃	H	Cl
	H	amino acid	CH ₃	H	Br
25	H	amino acid	CH ₃	H	I
	amino acid	amino acid	CH ₃	H	H
	amino acid	amino acid	CH ₃	H	NH ₂
	amino acid	amino acid	CH ₃	H	NH-cyclopropyl
	amino acid	amino acid	CH ₃	H	NH-methyl
	amino acid	amino acid	CH ₃	H	NH-ethyl
30	amino acid	amino acid	CH ₃	H	NH-acetyl
	amino acid	amino acid	CH ₃	H	OH
	amino acid	amino acid	CH ₃	H	OMe
	amino acid	amino acid	CH ₃	H	OEt
	amino acid	amino acid	CH ₃	H	O-cyclopropyl
	amino acid	amino acid	CH ₃	H	O-acetyl
35	amino acid	amino acid	CH ₃	H	SH
	amino acid	amino acid	CH ₃	H	SMe
	amino acid	amino acid	CH ₃	H	SEt
	amino acid	amino acid	CH ₃	H	S-cyclopropyl
	amino acid	amino acid	CH ₃	H	F
	amino acid	amino acid	CH ₃	H	Cl
40	amino acid	amino acid	CH ₃	H	Br
	amino acid	amino acid	CH ₃	H	I
	amino acid	H	CH ₃	H	H
	amino acid	H	CH ₃	H	NH ₂
	amino acid	H	CH ₃	H	NH-cyclopropyl
	amino acid	H	CH ₃	H	NH-methyl
	amino acid	H	CH ₃	H	NH-ethyl
45	amino acid	H	CH ₃	H	NH-acetyl
	amino acid	H	CH ₃	H	OH
	amino acid	H	CH ₃	H	OMe
	amino acid	H	CH ₃	H	OEt
	amino acid	H	CH ₃	H	O-cyclopropyl
	amino acid	H	CH ₃	H	O-acetyl
50	amino acid	H	CH ₃	H	SH
	amino acid	H	CH ₃	H	SMe
	amino acid	H	CH ₃	H	SEt
	amino acid	H	CH ₃	H	S-cyclopropyl
	amino acid	H	CH ₃	H	F
	amino acid	H	CH ₃	H	Cl
55	amino acid	H	CH ₃	H	Br
	amino acid	H	CH ₃	H	I
	amino acid	acyl	CH ₃	H	H
	amino acid	acyl	CH ₃	H	NH ₂
	amino acid	acyl	CH ₃	H	NH-cyclopropyl
	amino acid	acyl	CH ₃	H	NH-methyl
	amino acid	acyl	CH ₃	H	NH-ethyl
60	amino acid	acyl	CH ₃	H	NH-acetyl
	amino acid	acyl	CH ₃	H	OH
	amino acid	acyl	CH ₃	H	OMe
	amino acid	acyl	CH ₃	H	OEt
	amino acid	acyl	CH ₃	H	O-cyclopropyl
	amino acid	acyl	CH ₃	H	O-acetyl
65	amino acid	acyl	CH ₃	H	SH
	amino acid	acyl	CH ₃	H	SMe

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
amino acid	acyl	CH ₃	H	SEt
amino acid	acyl	CH ₃	H	S-cyclopropyl
amino acid	acyl	CH ₃	H	F
amino acid	acyl	CH ₃	H	Cl
amino acid	acyl	CH ₃	H	Br
amino acid	acyl	CH ₃	H	I
acyl	H	CF ₃	H	H
acyl	H	CF ₃	H	NH ₂
acyl	H	CF ₃	H	NH-cyclopropyl
acyl	H	CF ₃	H	NH-methyl
acyl	H	CF ₃	H	NH-ethyl
acyl	H	CF ₃	H	NH-acetyl
acyl	H	CF ₃	H	OH
acyl	H	CF ₃	H	OMe
acyl	H	CF ₃	H	OEt
acyl	H	CF ₃	H	O-cyclopropyl
acyl	H	CF ₃	H	O-acetyl
acyl	H	CF ₃	H	SH
acyl	H	CF ₃	H	SMe
acyl	H	CF ₃	H	SEt
acyl	H	CF ₃	H	S-cyclopropyl
acyl	H	CF ₃	H	F
acyl	H	CF ₃	H	Cl
acyl	H	CF ₃	H	Br
acyl	H	CF ₃	H	I
acyl	acyl	CF ₃	H	H
acyl	acyl	CF ₃	H	NH ₂
acyl	acyl	CF ₃	H	NH-cyclopropyl
acyl	acyl	CF ₃	H	NH-methyl
acyl	acyl	CF ₃	H	NH-ethyl
acyl	acyl	CF ₃	H	NH-acetyl
acyl	acyl	CF ₃	H	OH
acyl	acyl	CF ₃	H	OMe
acyl	acyl	CF ₃	H	OEt
acyl	acyl	CF ₃	H	O-cyclopropyl
acyl	acyl	CF ₃	H	O-acetyl
acyl	acyl	CF ₃	H	SH
acyl	acyl	CF ₃	H	SMe
acyl	acyl	CF ₃	H	SEt
acyl	acyl	CF ₃	H	S-cyclopropyl
acyl	acyl	CF ₃	H	F
acyl	acyl	CF ₃	H	Cl
acyl	acyl	CF ₃	H	Br
acyl	acyl	CF ₃	H	I
acyl	amino acid	CF ₃	H	H
acyl	amino acid	CF ₃	H	NH ₂
acyl	amino acid	CF ₃	H	NH-cyclopropyl
acyl	amino acid	CF ₃	H	NH-methyl
acyl	amino acid	CF ₃	H	NH-ethyl
acyl	amino acid	CF ₃	H	NH-acetyl
acyl	amino acid	CF ₃	H	OH
acyl	amino acid	CF ₃	H	OMe
acyl	amino acid	CF ₃	H	OEt
acyl	amino acid	CF ₃	H	O-cyclopropyl
acyl	amino acid	CF ₃	H	O-acetyl
acyl	amino acid	CF ₃	H	SH
acyl	amino acid	CF ₃	H	SMe
acyl	amino acid	CF ₃	H	SEt
acyl	amino acid	CF ₃	H	S-cyclopropyl
acyl	amino acid	CF ₃	H	F
acyl	amino acid	CF ₃	H	Cl
acyl	amino acid	CF ₃	H	Br
acyl	amino acid	CF ₃	H	I
H	acyl	CF ₃	H	H
H	acyl	CF ₃	H	NH ₂
H	acyl	CF ₃	H	NH-cyclopropyl
H	acyl	CF ₃	H	NH-methyl
H	acyl	CF ₃	H	NH-ethyl
H	acyl	CF ₃	H	NH-acetyl
H	acyl	CF ₃	H	OH
H	acyl	CF ₃	H	OMe
H	acyl	CF ₃	H	OEt
H	acyl	CF ₃	H	O-cyclopropyl
H	acyl	CF ₃	H	O-acetyl
H	acyl	CF ₃	H	SH
H	acyl	CF ₃	H	SMe
H	acyl	CF ₃	H	SEt
H	acyl	CF ₃	H	S-cyclopropyl
H	acyl	CF ₃	H	F
H	acyl	CF ₃	H	Cl
H	acyl	CF ₃	H	Br
H	acyl	CF ₃	H	I

TABLE 1-continued

	R ²	R ³	X ¹	X ²	Y
5	H	acyl	CF ₃	H	S-cyclopropyl
	H	acyl	CF ₃	H	F
	H	acyl	CF ₃	H	Cl
	H	acyl	CF ₃	H	Br
	H	acyl	CF ₃	H	I
10	H	amino acid	CF ₃	H	H
	H	amino acid	CF ₃	H	NH ₂
	H	amino acid	CF ₃	H	NH-cyclopropyl
	H	amino acid	CF ₃	H	NH-methyl
	H	amino acid	CF ₃	H	NH-ethyl
15	H	amino acid	CF ₃	H	NH-acetyl
	H	amino acid	CF ₃	H	OH
	H	amino acid	CF ₃	H	OMe
	H	amino acid	CF ₃	H	OEt
	H	amino acid	CF ₃	H	O-cyclopropyl
20	H	amino acid	CF ₃	H	O-acetyl
	H	amino acid	CF ₃	H	SH
	H	amino acid	CF ₃	H	SMe
	H	amino acid	CF ₃	H	SEt
	H	amino acid	CF ₃	H	S-cyclopropyl
25	H	amino acid	CF ₃	H	F
	H	amino acid	CF ₃	H	Cl
	H	amino acid	CF ₃	H	Br
	H	amino acid	CF ₃	H	I
	H	amino acid	CF ₃	H	H
30	amino acid	amino acid	CF ₃	H	NH ₂
	amino acid	amino acid	CF ₃	H	NH-cyclopropyl
	amino acid	amino acid	CF ₃	H	NH-methyl
	amino acid	amino acid	CF ₃	H	NH-ethyl
	amino acid	amino acid	CF ₃	H	NH-acetyl
35	amino acid	amino acid	CF ₃	H	OH
	amino acid	amino acid	CF ₃	H	OMe
	amino acid	amino acid	CF ₃	H	OEt
	amino acid	amino acid	CF ₃	H	O-cyclopropyl
	amino acid	amino acid	CF ₃	H	O-acetyl
40	amino acid	amino acid	CF ₃	H	SH
	amino acid	amino acid	CF ₃	H	SMe
	amino acid	amino acid	CF ₃	H	SEt
	amino acid	amino acid	CF ₃	H	S-cyclopropyl
	amino acid	amino acid	CF ₃	H	F
45	amino acid	amino acid	CF ₃	H	Cl
	amino acid	amino acid	CF ₃	H	Br
	amino acid	amino acid	CF ₃	H	I
	amino acid	H	CF ₃	H	H
	amino acid	H	CF ₃	H	NH ₂
50	amino acid	H	CF ₃	H	NH-cyclopropyl
	amino acid	H	CF ₃	H	NH-methyl
	amino acid	H	CF ₃	H	NH-ethyl
	amino acid	H	CF ₃	H	NH-acetyl
	amino acid	H	CF ₃	H	OH
55	amino acid	H	CF ₃	H	OMe
	amino acid	H	CF ₃	H	OEt
	amino acid	H	CF ₃	H	O-cyclopropyl
	amino acid	H	CF ₃	H	O-acetyl
	amino acid	H	CF ₃	H	SH
60	amino acid	H	CF ₃	H	SMe
	amino acid	H	CF ₃	H	SEt
	amino acid	H	CF ₃	H	S-cyclopropyl
	amino acid	H	CF ₃	H	F
	amino acid	H	CF ₃	H	Cl
65	amino acid	H	CF ₃	H	Br
	amino acid	H	CF ₃	H	I
	amino acid	acyl	CF ₃	H	H
	amino acid	acyl	CF ₃	H	NH ₂
	amino acid	acyl	CF ₃	H	NH-cyclopropyl
	amino acid	acyl	CF ₃	H	NH-methyl
	amino acid	acyl	CF ₃	H	NH-ethyl
	amino acid	acyl	CF ₃	H	NH-acetyl
	amino acid	acyl	CF ₃	H	OH
	amino acid	acyl	CF ₃	H	OMe
	amino acid	acyl	CF ₃	H	OEt
	amino acid	acyl	CF ₃	H	O-cyclopropyl
	amino acid	acyl	CF ₃	H	O-acetyl
	amino acid	acyl	CF ₃	H	SH
	amino acid	acyl	CF ₃	H	SMe
	amino acid	acyl	CF ₃	H	SEt
	amino acid	acyl	CF ₃	H	S-cyclopropyl

TABLE 1-continued

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TABLE 1-continued

Gilead Exhibit 2034
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TABLE 1-continued

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TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
acyl	H	NH ₂	H	NH-cyclopropyl
acyl	H	NH ₂	H	NH-methyl
acyl	H	NH ₂	H	NH-ethyl
acyl	H	NH ₂	H	NH-acetyl
acyl	H	NH ₂	H	OH
acyl	H	NH ₂	H	OMe
acyl	H	NH ₂	H	OEt
acyl	H	NH ₂	H	O-cyclopropyl
acyl	H	NH ₂	H	O-acetyl
acyl	H	NH ₂	H	SH
acyl	H	NH ₂	H	SMe
acyl	H	NH ₂	H	SEt
acyl	H	NH ₂	H	S-cyclopropyl
acyl	H	NH ₂	H	F
acyl	H	NH ₂	H	Cl
acyl	H	NH ₂	H	Br
acyl	H	NH ₂	H	I
acyl	acyl	NH ₂	H	H
acyl	acyl	NH ₂	H	NH ₂
acyl	acyl	NH ₂	H	NH-cyclopropyl
acyl	acyl	NH ₂	H	NH-methyl
acyl	acyl	NH ₂	H	NH-ethyl
acyl	acyl	NH ₂	H	NH-acetyl
acyl	acyl	NH ₂	H	OH
acyl	acyl	NH ₂	H	OMe
acyl	acyl	NH ₂	H	OEt
acyl	acyl	NH ₂	H	O-cyclopropyl
acyl	acyl	NH ₂	H	O-acetyl
acyl	acyl	NH ₂	H	SH
acyl	acyl	NH ₂	H	SMe
acyl	acyl	NH ₂	H	SEt
acyl	acyl	NH ₂	H	S-cyclopropyl
acyl	acyl	NH ₂	H	F
acyl	acyl	NH ₂	H	Cl
acyl	acyl	NH ₂	H	Br
acyl	acyl	NH ₂	H	I
acyl	acyl	NH ₂	H	H
acyl	amino acid	NH ₂	H	NH ₂
acyl	amino acid	NH ₂	H	NH-cyclopropyl
acyl	amino acid	NH ₂	H	NH-methyl
acyl	amino acid	NH ₂	H	NH-ethyl
acyl	amino acid	NH ₂	H	NH-acetyl
acyl	amino acid	NH ₂	H	OH
acyl	amino acid	NH ₂	H	OMe
acyl	amino acid	NH ₂	H	OEt
acyl	amino acid	NH ₂	H	O-cyclopropyl
acyl	amino acid	NH ₂	H	O-acetyl
acyl	amino acid	NH ₂	H	SH
acyl	amino acid	NH ₂	H	SMe
acyl	amino acid	NH ₂	H	SEt
acyl	amino acid	NH ₂	H	S-cyclopropyl
acyl	amino acid	NH ₂	H	F
acyl	amino acid	NH ₂	H	Cl
acyl	amino acid	NH ₂	H	Br
acyl	amino acid	NH ₂	H	I
acyl	acyl	NH ₂	H	H
H	acyl	NH ₂	H	NH ₂
H	acyl	NH ₂	H	NH-cyclopropyl
H	acyl	NH ₂	H	NH-methyl
H	acyl	NH ₂	H	NH-ethyl
H	acyl	NH ₂	H	NH-acetyl
H	acyl	NH ₂	H	OH
H	acyl	NH ₂	H	OMe
H	acyl	NH ₂	H	OEt
H	acyl	NH ₂	H	O-cyclopropyl
H	acyl	NH ₂	H	O-acetyl
H	acyl	NH ₂	H	SH
H	acyl	NH ₂	H	SMe
H	acyl	NH ₂	H	SEt
H	acyl	NH ₂	H	S-cyclopropyl
H	acyl	NH ₂	H	F
H	acyl	NH ₂	H	Cl
H	acyl	NH ₂	H	Br
H	acyl	NH ₂	H	I
H	acyl	NH ₂	H	H
H	amino acid	NH ₂	H	NH ₂
H	amino acid	NH ₂	H	NH-cyclopropyl
H	amino acid	NH ₂	H	NH-methyl

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y	
5	H	amino acid	NH ₂	H	NH-methyl
	H	amino acid	NH ₂	H	NH-ethyl
	H	amino acid	NH ₂	H	NH-acetyl
	H	amino acid	NH ₂	H	OH
	H	amino acid	NH ₂	H	OMe
10	H	amino acid	NH ₂	H	OEt
	H	amino acid	NH ₂	H	O-cyclopropyl
	H	amino acid	NH ₂	H	O-acetyl
	H	amino acid	NH ₂	H	SH
	H	amino acid	NH ₂	H	SMe
15	H	amino acid	NH ₂	H	SEt
	H	amino acid	NH ₂	H	S-cyclopropyl
	H	amino acid	NH ₂	H	F
	H	amino acid	NH ₂	H	Cl
	H	amino acid	NH ₂	H	Br
20	amino acid	amino acid	NH ₂	H	I
	amino acid	amino acid	NH ₂	H	H
	amino acid	amino acid	NH ₂	H	NH ₂
	amino acid	amino acid	NH ₂	H	NH-cyclopropyl
	amino acid	amino acid	NH ₂	H	NH-methyl
25	amino acid	amino acid	NH ₂	H	NH-ethyl
	amino acid	amino acid	NH ₂	H	NH-acetyl
	amino acid	amino acid	NH ₂	H	OH
	amino acid	amino acid	NH ₂	H	OMe
	amino acid	amino acid	NH ₂	H	OEt
30	amino acid	amino acid	NH ₂	H	O-cyclopropyl
	amino acid	amino acid	NH ₂	H	O-acetyl
	amino acid	amino acid	NH ₂	H	SH
	amino acid	amino acid	NH ₂	H	SMe
	amino acid	amino acid	NH ₂	H	SEt
35	amino acid	amino acid	NH ₂	H	S-cyclopropyl
	amino acid	amino acid	NH ₂	H	F
	amino acid	amino acid	NH ₂	H	Cl
	amino acid	amino acid	NH ₂	H	Br
	amino acid	amino acid	NH ₂	H	I
40	amino acid	H	NH ₂	H	H
	amino acid	H	NH ₂	H	NH ₂
	amino acid	H	NH ₂	H	NH-cyclopropyl
	amino acid	H	NH ₂	H	NH-methyl
	amino acid	H	NH ₂	H	NH-ethyl
45	amino acid	H	NH ₂	H	NH-acetyl
	amino acid	H	NH ₂	H	OH
	amino acid	H	NH ₂	H	OMe
	amino acid	H	NH ₂	H	OEt
	amino acid	H	NH ₂	H	O-cyclopropyl
50	amino acid	H	NH ₂	H	O-acetyl
	amino acid	H	NH ₂	H	SH
	amino acid	H	NH ₂	H	SMe
	amino acid	H	NH ₂	H	SEt
	amino acid	H	NH ₂	H	S-cyclopropyl
55	amino acid	H	NH ₂	H	F
	amino acid	H	NH ₂	H	Cl
	amino acid	H	NH ₂	H	Br
	amino acid	H	NH ₂	H	I
	amino acid	acyl	NH ₂	H	H
60	amino acid	acyl	NH ₂	H	NH ₂
	amino acid	acyl	NH ₂	H	NH-cyclopropyl
	amino acid	acyl	NH ₂	H	NH-methyl
	amino acid	acyl	NH ₂	H	NH-ethyl
	amino acid	acyl	NH ₂	H	NH-acetyl
65	amino acid	acyl	NH ₂	H	OH
	amino acid	acyl	NH ₂	H	OMe
	amino acid	acyl	NH ₂	H	OEt
	amino acid	acyl	NH ₂	H	O-cyclopropyl
	amino acid	acyl	NH ₂	H	O-acetyl
	amino acid	acyl	NH ₂	H	SH
	amino acid	acyl	NH ₂	H	SMe
	amino acid	acyl	NH ₂	H	SEt
	amino acid	acyl	NH ₂	H	S-cyclopropyl
	amino acid	acyl	NH ₂	H	F
	amino acid	acyl	NH ₂	H	Cl
	amino acid	acyl	NH ₂	H	Br
	amino acid	acyl	NH ₂	H	I
	acyl	H	SH	H	H
	acyl	H	SH	H	NH ₂
	acyl	H	SH	H	NH-cyclopropyl
	acyl	H	SH	H	NH-methyl

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
acyl	H	SH	H	NH-ethyl
acyl	H	SH	H	NH-acetyl
acyl	H	SH	H	OH
acyl	H	SH	H	OMe
acyl	H	SH	H	OEt
acyl	H	SH	H	O-cyclopropyl
acyl	H	SH	H	O-acetyl
acyl	H	SH	H	SH
acyl	H	SH	H	SMe
acyl	H	SH	H	SEt
acyl	H	SH	H	S-cyclopropyl
acyl	H	SH	H	F
acyl	H	SH	H	Cl
acyl	H	SH	H	Br
acyl	H	SH	H	I
acyl	acyl	SH	H	H
acyl	acyl	SH	H	NH ₂
acyl	acyl	SH	H	NH-cyclopropyl
acyl	acyl	SH	H	NH-methyl
acyl	acyl	SH	H	NH-ethyl
acyl	acyl	SH	H	NH-acetyl
acyl	acyl	SH	H	OH
acyl	acyl	SH	H	OMe
acyl	acyl	SH	H	OEt
acyl	acyl	SH	H	O-cyclopropyl
acyl	acyl	SH	H	O-acetyl
acyl	acyl	SH	H	SH
acyl	acyl	SH	H	SMe
acyl	acyl	SH	H	SEt
acyl	acyl	SH	H	S-cyclopropyl
acyl	acyl	SH	H	F
acyl	acyl	SH	H	Cl
acyl	acyl	SH	H	Br
acyl	acyl	SH	H	I
acyl	amino acid	SH	H	H
acyl	amino acid	SH	H	NH ₂
acyl	amino acid	SH	H	NH-cyclopropyl
acyl	amino acid	SH	H	NH-methyl
acyl	amino acid	SH	H	NH-ethyl
acyl	amino acid	SH	H	NH-acetyl
acyl	amino acid	SH	H	OH
acyl	amino acid	SH	H	OMe
acyl	amino acid	SH	H	OEt
acyl	amino acid	SH	H	O-cyclopropyl
acyl	amino acid	SH	H	O-acetyl
acyl	amino acid	SH	H	SH
acyl	amino acid	SH	H	SMe
acyl	amino acid	SH	H	SEt
acyl	amino acid	SH	H	S-cyclopropyl
acyl	amino acid	SH	H	F
acyl	amino acid	SH	H	Cl
acyl	amino acid	SH	H	Br
acyl	amino acid	SH	H	I
H	acyl	SH	H	H
H	acyl	SH	H	NH ₂
H	acyl	SH	H	NH-cyclopropyl
H	acyl	SH	H	NH-methyl
H	acyl	SH	H	NH-ethyl
H	acyl	SH	H	NH-acetyl
H	acyl	SH	H	OH
H	acyl	SH	H	OMe
H	acyl	SH	H	OEt
H	acyl	SH	H	O-cyclopropyl
H	acyl	SH	H	O-acetyl
H	acyl	SH	H	SH
H	acyl	SH	H	SMe
H	acyl	SH	H	SEt
H	acyl	SH	H	S-cyclopropyl
H	acyl	SH	H	F
H	acyl	SH	H	Cl
H	acyl	SH	H	Br
H	acyl	SH	H	I
H	amino acid	SH	H	H
H	amino acid	SH	H	NH ₂
H	amino acid	SH	H	NH-cyclopropyl
H	amino acid	SH	H	NH-methyl
H	amino acid	SH	H	NH-ethyl

TABLE 1-continued

	R ²	R ³	X ¹	X ²	Y
5	H	amino acid	SH	H	NH-acetyl
	H	amino acid	SH	H	OH
	H	amino acid	SH	H	OMe
	H	amino acid	SH	H	OEt
	H	amino acid	SH	H	O-cyclopropyl
	H	amino acid	SH	H	O-acetyl
10	H	amino acid	SH	H	SH
	H	amino acid	SH	H	SMe
	H	amino acid	SH	H	SEt
	H	amino acid	SH	H	S-cyclopropyl
	H	amino acid	SH	H	F
	H	amino acid	SH	H	Cl
15	H	amino acid	SH	H	Br
16	H	amino acid	SH	H	I
	amino acid	amino acid	SH	H	H
	amino acid	amino acid	SH	H	NH ₂
	amino acid	amino acid	SH	H	NH-cyclopropyl
	amino acid	amino acid	SH	H	NH-methyl
20	amino acid	amino acid	SH	H	NH-ethyl
	amino acid	amino acid	SH	H	NH-acetyl
	amino acid	amino acid	SH	H	OH
	amino acid	amino acid	SH	H	OMe
	amino acid	amino acid	SH	H	OEt
	amino acid	amino acid	SH	H	O-cyclopropyl
	amino acid	amino acid	SH	H	O-acetyl
25	amino acid	amino acid	SH	H	SH
	amino acid	amino acid	SH	H	SMe
	amino acid	amino acid	SH	H	SEt
	amino acid	amino acid	SH	H	S-cyclopropyl
	amino acid	amino acid	SH	H	F
	amino acid	amino acid	SH	H	Cl
30	amino acid	amino acid	SH	H	Br
	amino acid	amino acid	SH	H	I
	amino acid	H	SH	H	H
	amino acid	H	SH	H	NH ₂
	amino acid	H	SH	H	NH-cyclopropyl
	amino acid	H	SH	H	NH-methyl
35	amino acid	H	SH	H	NH-ethyl
	amino acid	H	SH	H	NH-acetyl
	amino acid	H	SH	H	OH
	amino acid	H	SH	H	OMe
	amino acid	H	SH	H	OEt
	amino acid	H	SH	H	O-cyclopropyl
40	amino acid	H	SH	H	O-acetyl
	amino acid	H	SH	H	SH
	amino acid	H	SH	H	SMe
	amino acid	H	SH	H	SEt
	amino acid	H	SH	H	S-cyclopropyl
	amino acid	H	SH	H	F
	amino acid	H	SH	H	Cl
45	amino acid	H	SH	H	Br
	amino acid	H	SH	H	I
	amino acid	acyl	SH	H	H
	amino acid	acyl	SH	H	NH ₂
	amino acid	acyl	SH	H	NH-cyclopropyl
	amino acid	acyl	SH	H	NH-methyl
50	amino acid	acyl	SH	H	NH-ethyl
	amino acid	acyl	SH	H	NH-acetyl
	amino acid	acyl	SH	H	OH
	amino acid	acyl	SH	H	OMe
	amino acid	acyl	SH	H	OEt
	amino acid	acyl	SH	H	O-cyclopropyl
55	amino acid	acyl	SH	H	O-acetyl
	amino acid	acyl	SH	H	SH
	amino acid	acyl	SH	H	SMe
	amino acid	acyl	SH	H	SEt
	amino acid	acyl	SH	H	S-cyclopropyl
	amino acid	acyl	SH	H	F
	amino acid	acyl	SH	H	Cl
60	amino acid	acyl	SH	H	Br
	amino acid	acyl	SH	H	I
	acyl	H	OH	H	H
	acyl	H	OH	H	NH ₂
	acyl	H	OH	H	NH-cyclopropyl
	acyl	H	OH	H	NH-methyl
65	acyl	H	OH	H	NH-ethyl
	acyl	H	OH	H	NH-acetyl

TABLE 1-continued

R ²	R ³	X ¹	X ²	Y
acyl	H	OH	H	OH
acyl	H	OH	H	OMe
acyl	H	OH	H	OEt
acyl	H	OH	H	O-cyclopropyl
acyl	H	OH	H	O-acetyl
acyl	H	OH	H	SH
acyl	H	OH	H	SMe
acyl	H	OH	H	SEt
acyl	H	OH	H	S-cyclopropyl
acyl	H	OH	H	F
acyl	H	OH	H	Cl
acyl	H	OH	H	Br
acyl	H	OH	H	I
acyl	acyl	OH	H	H
acyl	acyl	OH	H	NH ₂
acyl	acyl	OH	H	NH-cyclopropyl
acyl	acyl	OH	H	NH-methyl
acyl	acyl	OH	H	NH-ethyl
acyl	acyl	OH	H	NH-acetyl
acyl	acyl	OH	H	OH
acyl	acyl	OH	H	OMe
acyl	acyl	OH	H	OEt
acyl	acyl	OH	H	O-cyclopropyl
acyl	acyl	OH	H	O-acetyl
acyl	acyl	OH	H	SH
acyl	acyl	OH	H	SMe
acyl	acyl	OH	H	SEt
acyl	acyl	OH	H	S-cyclopropyl
acyl	acyl	OH	H	F
acyl	acyl	OH	H	Cl
acyl	acyl	OH	H	Br
acyl	acyl	OH	H	I
acyl	amino acid	OH	H	H
acyl	amino acid	OH	H	NH ₂
acyl	amino acid	OH	H	NH-cyclopropyl
acyl	amino acid	OH	H	NH-methyl
acyl	amino acid	OH	H	NH-ethyl
acyl	amino acid	OH	H	NH-acetyl
acyl	amino acid	OH	H	OH
acyl	amino acid	OH	H	OMe
acyl	amino acid	OH	H	OEt
acyl	amino acid	OH	H	O-cyclopropyl
acyl	amino acid	OH	H	O-acetyl
acyl	amino acid	OH	H	SH
acyl	amino acid	OH	H	SMe
acyl	amino acid	OH	H	SEt
acyl	amino acid	OH	H	S-cyclopropyl
acyl	amino acid	OH	H	F
acyl	amino acid	OH	H	Cl
acyl	amino acid	OH	H	Br
acyl	amino acid	OH	H	I
H	acyl	OH	H	H
H	acyl	OH	H	NH ₂
H	acyl	OH	H	NH-cyclopropyl
H	acyl	OH	H	NH-methyl
H	acyl	OH	H	NH-ethyl
H	acyl	OH	H	NH-acetyl
H	acyl	OH	H	OH
H	acyl	OH	H	OMe
H	acyl	OH	H	OEt
H	acyl	OH	H	O-cyclopropyl
H	acyl	OH	H	O-acetyl
H	acyl	OH	H	SH
H	acyl	OH	H	SMe
H	acyl	OH	H	SEt
H	acyl	OH	H	S-cyclopropyl
H	acyl	OH	H	F
H	acyl	OH	H	Cl
H	acyl	OH	H	Br
H	acyl	OH	H	I
H	amino acid	OH	H	H
H	amino acid	OH	H	NH ₂
H	amino acid	OH	H	NH-cyclopropyl
H	amino acid	OH	H	NH-methyl
H	amino acid	OH	H	NH-ethyl
H	amino acid	OH	H	NH-acetyl
H	amino acid	OH	H	OH
H	amino acid	OH	H	OMe
H	amino acid	OH	H	OEt
H	amino acid	OH	H	O-cyclopropyl
H	amino acid	OH	H	O-acetyl
H	amino acid	OH	H	SH
H	amino acid	OH	H	SMe
H	amino acid	OH	H	SEt
H	amino acid	OH	H	S-cyclopropyl
H	amino acid	OH	H	F
H	amino acid	OH	H	Cl
H	amino acid	OH	H	Br
H	amino acid	OH	H	I

TABLE 1-continued

	R ²	R ³	X ¹	X ²	Y
5	H	amino acid	OH	H	OMe
	H	amino acid	OH	H	OEt
	H	amino acid	OH	H	O-cyclopropyl
	H	amino acid	OH	H	O-acetyl
	H	amino acid	OH	H	SH
10	H	amino acid	OH	H	SMe
	H	amino acid	OH	H	SEt
	H	amino acid	OH	H	S-cyclopropyl
	H	amino acid	OH	H	F
	H	amino acid	OH	H	Cl
15	H	amino acid	OH	H	Br
	H	amino acid	OH	H	I
	amino acid	amino acid	OH	H	H
	amino acid	amino acid	OH	H	NH ₂
	amino acid	amino acid	OH	H	NH-cyclopropyl
20	amino acid	amino acid	OH	H	NH-methyl
	amino acid	amino acid	OH	H	NH-ethyl
	amino acid	amino acid	OH	H	NH-acetyl
	amino acid	amino acid	OH	H	OH
	amino acid	amino acid	OH	H	OMe
25	amino acid	amino acid	OH	H	OEt
	amino acid	amino acid	OH	H	O-cyclopropyl
	amino acid	amino acid	OH	H	O-acetyl
	amino acid	amino acid	OH	H	SH
	amino acid	amino acid	OH	H	SMe
30	amino acid	amino acid	OH	H	SEt
	amino acid	amino acid	OH	H	S-cyclopropyl
	amino acid	amino acid	OH	H	F
	amino acid	amino acid	OH	H	Cl
	amino acid	amino acid	OH	H	Br
35	amino acid	amino acid	OH	H	I
	amino acid	H	OH	H	H
	amino acid	H	OH	H	NH ₂
	amino acid	H	OH	H	NH-cyclopropyl
	amino acid	H	OH	H	NH-methyl
40	amino acid	H	OH	H	NH-ethyl
	amino acid	H	OH	H	NH-acetyl
	amino acid	H	OH	H	OH
	amino acid	H	OH	H	OMe
	amino acid	H	OH	H	OEt
45	amino acid	H	OH	H	O-cyclopropyl
	amino acid	H	OH	H	O-acetyl
	amino acid	H	OH	H	SH
	amino acid	H	OH	H	SMe
	amino acid	H	OH	H	SEt
50	amino acid	H	OH	H	S-cyclopropyl
	amino acid	H	OH	H	F
	amino acid	H	OH	H	Cl
	amino acid	H	OH	H	Br
	amino acid	H	OH	H	I
55	amino acid	acyl	OH	H	H
	amino acid	acyl	OH	H	NH ₂
	amino acid	acyl	OH	H	NH-cyclopropyl
	amino acid	acyl	OH	H	NH-methyl
	amino acid	acyl	OH	H	NH-ethyl
60	amino acid	acyl	OH	H	NH-acetyl
	amino acid	acyl	OH	H	OH
	amino acid	acyl	OH	H	OMe
	amino acid	acyl	OH	H	OEt
	amino acid	acyl	OH	H	O-cyclopropyl
65	amino acid	acyl	OH	H	O-acetyl
	amino acid	acyl	OH	H	SH
	amino acid	acyl	OH	H	SMe
	amino acid	acyl	OH	H	SEt
	amino acid	acyl	OH	H	S-cyclopropyl

TABLE 2

R ²	R ³	X ¹	X ²	Y
acyl	H	CH ₃	Br	H
acyl	H	CH ₃	Br	NH ₂
acyl	H	CH ₃	Br	NH-cyclopropyl
acyl	H	CH ₃	Br	NH-methyl
acyl	H	CH ₃	Br	NH-ethyl
acyl	H	CH ₃	Br	NH-acetyl
acyl	H	CH ₃	Br	OH
acyl	H	CH ₃	Br	OMe
acyl	H	CH ₃	Br	OEt
acyl	H	CH ₃	Br	O-cyclopropyl
acyl	H	CH ₃	Br	O-acetyl
acyl	H	CH ₃	Br	SH
acyl	H	CH ₃	Br	SMe
acyl	H	CH ₃	Br	SEt
acyl	H	CH ₃	Br	S-cyclopropyl
acyl	H	CH ₃	Br	F
acyl	H	CH ₃	Br	Cl
acyl	H	CH ₃	Br	Br
acyl	H	CH ₃	Br	I
acyl	acyl	CH ₃	Br	H
acyl	acyl	CH ₃	Br	NH ₂
acyl	acyl	CH ₃	Br	NH-cyclopropyl
acyl	acyl	CH ₃	Br	NH-methyl
acyl	acyl	CH ₃	Br	NH-ethyl
acyl	acyl	CH ₃	Br	NH-acetyl
acyl	acyl	CH ₃	Br	OH
acyl	acyl	CH ₃	Br	OMe
acyl	acyl	CH ₃	Br	OEt
acyl	acyl	CH ₃	Br	O-cyclopropyl
acyl	acyl	CH ₃	Br	O-acetyl
acyl	acyl	CH ₃	Br	SH
acyl	acyl	CH ₃	Br	SMe
acyl	acyl	CH ₃	Br	SEt
acyl	acyl	CH ₃	Br	S-cyclopropyl
acyl	acyl	CH ₃	Br	F
acyl	acyl	CH ₃	Br	Cl
acyl	acyl	CH ₃	Br	Br
acyl	acyl	CH ₃	Br	I
acyl	acyl	CH ₃	Br	H
acyl	amino acid	CH ₃	Br	NH ₂
acyl	amino acid	CH ₃	Br	NH-cyclopropyl
acyl	amino acid	CH ₃	Br	NH-methyl
acyl	amino acid	CH ₃	Br	NH-ethyl
acyl	amino acid	CH ₃	Br	NH-acetyl
acyl	amino acid	CH ₃	Br	OH
acyl	amino acid	CH ₃	Br	OMe
acyl	amino acid	CH ₃	Br	OEt
acyl	amino acid	CH ₃	Br	O-cyclopropyl
acyl	amino acid	CH ₃	Br	O-acetyl
acyl	amino acid	CH ₃	Br	SH
acyl	amino acid	CH ₃	Br	SMe
acyl	amino acid	CH ₃	Br	SEt
acyl	amino acid	CH ₃	Br	S-cyclopropyl
acyl	amino acid	CH ₃	Br	F
acyl	amino acid	CH ₃	Br	Cl
acyl	amino acid	CH ₃	Br	Br
acyl	amino acid	CH ₃	Br	I
H	acyl	CH ₃	Br	H
H	acyl	CH ₃	Br	NH ₂
H	acyl	CH ₃	Br	NH-cyclopropyl
H	acyl	CH ₃	Br	NH-methyl
H	acyl	CH ₃	Br	NH-ethyl
H	acyl	CH ₃	Br	NH-acetyl
H	acyl	CH ₃	Br	OH
H	acyl	CH ₃	Br	OMe
H	acyl	CH ₃	Br	OEt
H	acyl	CH ₃	Br	O-cyclopropyl
H	acyl	CH ₃	Br	O-acetyl
H	acyl	CH ₃	Br	SH
H	acyl	CH ₃	Br	SMe
H	acyl	CH ₃	Br	SEt
H	acyl	CH ₃	Br	S-cyclopropyl
H	acyl	CH ₃	Br	F
H	acyl	CH ₃	Br	Cl
H	acyl	CH ₃	Br	Br
H	acyl	CH ₃	Br	I
H	acyl	CH ₃	Br	H
H	amino acid	CH ₃	Br	NH ₂

TABLE 2-continued

	R ²	R ³	X ¹	X ²	Y
5	H	amino acid	CH ₃	Br	NH ₂
	H	amino acid	CH ₃	Br	NH-cyclopropyl
	H	amino acid	CH ₃	Br	NH-methyl
	H	amino acid	CH ₃	Br	NH-ethyl
	H	amino acid	CH ₃	Br	NH-acetyl
10	H	amino acid	CH ₃	Br	OH
	H	amino acid	CH ₃	Br	OMe
	H	amino acid	CH ₃	Br	OEt
	H	amino acid	CH ₃	Br	O-cyclopropyl
	H	amino acid	CH ₃	Br	O-acetyl
15	H	amino acid	CH ₃	Br	SH
	H	amino acid	CH ₃	Br	SMe
	H	amino acid	CH ₃	Br	SEt
	H	amino acid	CH ₃	Br	S-cyclopropyl
	H	amino acid	CH ₃	Br	F
20	H	amino acid	CH ₃	Br	Cl
	H	amino acid	CH ₃	Br	Br
	H	amino acid	CH ₃	Br	I
	amino acid	amino acid	CH ₃	Br	H
	amino acid	amino acid	CH ₃	Br	NH ₂
25	amino acid	amino acid	CH ₃	Br	NH-cyclopropyl
	amino acid	amino acid	CH ₃	Br	NH-methyl
	amino acid	amino acid	CH ₃	Br	NH-ethyl
	amino acid	amino acid	CH ₃	Br	NH-acetyl
	amino acid	amino acid	CH ₃	Br	OH
30	amino acid	amino acid	CH ₃	Br	OMe
	amino acid	amino acid	CH ₃	Br	OEt
	amino acid	amino acid	CH ₃	Br	O-cyclopropyl
	amino acid	amino acid	CH ₃	Br	O-acetyl
	amino acid	amino acid	CH ₃	Br	SH
35	amino acid	amino acid	CH ₃	Br	SMe
	amino acid	amino acid	CH ₃	Br	SEt
	amino acid	amino acid	CH ₃	Br	S-cyclopropyl
	amino acid	amino acid	CH ₃	Br	F
	amino acid	amino acid	CH ₃	Br	Cl
40	amino acid	amino acid	CH ₃	Br	Br
	amino acid	amino acid	CH ₃	Br	I
	amino acid	H	CH ₃	Br	H
	amino acid	H	CH ₃	Br	NH ₂
	amino acid	H	CH ₃	Br	NH-cyclopropyl
45	amino acid	H	CH ₃	Br	NH-methyl
	amino acid	H	CH ₃	Br	NH-ethyl
	amino acid	H	CH ₃	Br	NH-acetyl
	amino acid	H	CH ₃	Br	OH
	amino acid	H	CH ₃	Br	OMe
50	amino acid	H	CH ₃	Br	OEt
	amino acid	H	CH ₃	Br	O-cyclopropyl
	amino acid	H	CH ₃	Br	O-acetyl
	amino acid	H	CH ₃	Br	SH
	amino acid	H	CH ₃	Br	SMe
55	amino acid	H	CH ₃	Br	SEt
	amino acid	H	CH ₃	Br	S-cyclopropyl
	amino acid	H	CH ₃	Br	F
	amino acid	H	CH ₃	Br	Cl
	amino acid	H	CH ₃	Br	Br
60	amino acid	H	CH ₃	Br	I
	amino acid	acyl	CH ₃	Br	H
	amino acid	acyl	CH ₃	Br	NH ₂
	amino acid	acyl	CH ₃	Br	NH-cyclopropyl
	amino acid	acyl	CH ₃	Br	NH-methyl
65	amino acid	acyl	CH ₃	Br	NH-ethyl
	amino acid	acyl	CH ₃	Br	NH-acetyl
	amino acid	acyl	CH ₃	Br	OH
	amino acid	acyl	CH ₃	Br	OMe
	amino acid	acyl	CH ₃	Br	OEt
	amino acid	acyl	CH ₃	Br	O-cyclopropyl
	amino acid	acyl	CH ₃	Br	O-acetyl
	amino acid	acyl	CH ₃	Br	SH
	amino acid	acyl	CH ₃	Br	SMe
	amino acid	acyl	CH ₃	Br	SEt
	amino acid	acyl	CH ₃	Br	S-cyclopropyl
	amino acid	acyl	CH ₃	Br	F
	amino acid	acyl	CH ₃	Br	Cl
	amino acid	acyl	CH ₃	Br	Br
	amino acid	acyl	CH ₃	Br	I
	acyl	H	CF ₃	Br	H
	acyl	H	CF ₃	Br	NH ₂

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
acyl	H	CF ₃	Br	NH-cyclopropyl
acyl	H	CF ₃	Br	NH-methyl
acyl	H	CF ₃	Br	NH-ethyl
acyl	H	CF ₃	Br	NH-acetyl
acyl	H	CF ₃	Br	OH
acyl	H	CF ₃	Br	OMe
acyl	H	CF ₃	Br	OEt
acyl	H	CF ₃	Br	O-cyclopropyl
acyl	H	CF ₃	Br	O-acetyl
acyl	H	CF ₃	Br	SH
acyl	H	CF ₃	Br	SMe
acyl	H	CF ₃	Br	SEt
acyl	H	CF ₃	Br	S-cyclopropyl
acyl	H	CF ₃	Br	F
acyl	H	CF ₃	Br	Cl
acyl	H	CF ₃	Br	Br
acyl	H	CF ₃	Br	I
acyl	acyl	CF ₃	Br	H
acyl	acyl	CF ₃	Br	NH ₂
acyl	acyl	CF ₃	Br	NH-cyclopropyl
acyl	acyl	CF ₃	Br	NH-methyl
acyl	acyl	CF ₃	Br	NH-ethyl
acyl	acyl	CF ₃	Br	NH-acetyl
acyl	acyl	CF ₃	Br	OH
acyl	acyl	CF ₃	Br	OMe
acyl	acyl	CF ₃	Br	OEt
acyl	acyl	CF ₃	Br	O-cyclopropyl
acyl	acyl	CF ₃	Br	O-acetyl
acyl	acyl	CF ₃	Br	SH
acyl	acyl	CF ₃	Br	SMe
acyl	acyl	CF ₃	Br	SEt
acyl	acyl	CF ₃	Br	S-cyclopropyl
acyl	acyl	CF ₃	Br	F
acyl	acyl	CF ₃	Br	Cl
acyl	acyl	CF ₃	Br	Br
acyl	acyl	CF ₃	Br	I
acyl	acyl	CF ₃	Br	H
acyl	amino acid	CF ₃	Br	H
acyl	amino acid	CF ₃	Br	NH ₂
acyl	amino acid	CF ₃	Br	NH-cyclopropyl
acyl	amino acid	CF ₃	Br	NH-methyl
acyl	amino acid	CF ₃	Br	NH-ethyl
acyl	amino acid	CF ₃	Br	NH-acetyl
acyl	amino acid	CF ₃	Br	OH
acyl	amino acid	CF ₃	Br	OMe
acyl	amino acid	CF ₃	Br	OEt
acyl	amino acid	CF ₃	Br	O-cyclopropyl
acyl	amino acid	CF ₃	Br	O-acetyl
acyl	amino acid	CF ₃	Br	SH
acyl	amino acid	CF ₃	Br	SMe
acyl	amino acid	CF ₃	Br	SEt
acyl	amino acid	CF ₃	Br	S-cyclopropyl
acyl	amino acid	CF ₃	Br	F
acyl	amino acid	CF ₃	Br	Cl
acyl	amino acid	CF ₃	Br	Br
acyl	amino acid	CF ₃	Br	I
H	acyl	CF ₃	Br	H
H	acyl	CF ₃	Br	NH ₂
H	acyl	CF ₃	Br	NH-cyclopropyl
H	acyl	CF ₃	Br	NH-methyl
H	acyl	CF ₃	Br	NH-ethyl
H	acyl	CF ₃	Br	NH-acetyl
H	acyl	CF ₃	Br	OH
H	acyl	CF ₃	Br	OMe
H	acyl	CF ₃	Br	OEt
H	acyl	CF ₃	Br	O-cyclopropyl
H	acyl	CF ₃	Br	O-acetyl
H	acyl	CF ₃	Br	SH
H	acyl	CF ₃	Br	SMe
H	acyl	CF ₃	Br	SEt
H	acyl	CF ₃	Br	S-cyclopropyl
H	acyl	CF ₃	Br	F
H	acyl	CF ₃	Br	Cl
H	acyl	CF ₃	Br	Br
H	acyl	CF ₃	Br	I
H	acyl	CF ₃	Br	H
H	amino acid	CF ₃	Br	H
H	amino acid	CF ₃	Br	NH ₂
H	amino acid	CF ₃	Br	NH-cyclopropyl

TABLE 2-continued

	R ²	R ³	X ¹	X ²	Y
5	H	amino acid	CF ₃	Br	NH-methyl
	H	amino acid	CF ₃	Br	NH-ethyl
	H	amino acid	CF ₃	Br	NH-acetyl
	H	amino acid	CF ₃	Br	OH
	H	amino acid	CF ₃	Br	OMe
10	H	amino acid	CF ₃	Br	OEt
	H	amino acid	CF ₃	Br	O-cyclopropyl
	H	amino acid	CF ₃	Br	O-acetyl
	H	amino acid	CF ₃	Br	SH
	H	amino acid	CF ₃	Br	SMe
15	H	amino acid	CF ₃	Br	SEt
	H	amino acid	CF ₃	Br	S-cyclopropyl
	H	amino acid	CF ₃	Br	F
	H	amino acid	CF ₃	Br	Cl
	H	amino acid	CF ₃	Br	Br
20	H	amino acid	CF ₃	Br	I
	amino acid	amino acid	CF ₃	Br	H
	amino acid	amino acid	CF ₃	Br	NH ₂
	amino acid	amino acid	CF ₃	Br	NH-cyclopropyl
	amino acid	amino acid	CF ₃	Br	NH-methyl
25	amino acid	amino acid	CF ₃	Br	NH-ethyl
	amino acid	amino acid	CF ₃	Br	NH-acetyl
	amino acid	amino acid	CF ₃	Br	OH
	amino acid	amino acid	CF ₃	Br	OMe
	amino acid	amino acid	CF ₃	Br	OEt
30	amino acid	amino acid	CF ₃	Br	O-cyclopropyl
	amino acid	amino acid	CF ₃	Br	O-acetyl
	amino acid	amino acid	CF ₃	Br	SH
	amino acid	amino acid	CF ₃	Br	SMe
	amino acid	amino acid	CF ₃	Br	SEt
35	amino acid	amino acid	CF ₃	Br	S-cyclopropyl
	amino acid	amino acid	CF ₃	Br	F
	amino acid	amino acid	CF ₃	Br	Cl
	amino acid	amino acid	CF ₃	Br	Br
	amino acid	amino acid	CF ₃	Br	I
40	amino acid	H	CF ₃	Br	H
	amino acid	H	CF ₃	Br	NH ₂
	amino acid	H	CF ₃	Br	NH-cyclopropyl
	amino acid	H	CF ₃	Br	NH-methyl
	amino acid	H	CF ₃	Br	NH-ethyl
45	amino acid	H	CF ₃	Br	NH-acetyl
	amino acid	H	CF ₃	Br	OH
	amino acid	H	CF ₃	Br	OMe
	amino acid	H	CF ₃	Br	OEt
	amino acid	H	CF ₃	Br	O-cyclopropyl
50	amino acid	H	CF ₃	Br	O-acetyl
	amino acid	H	CF ₃	Br	SH
	amino acid	H	CF ₃	Br	SMe
	amino acid	H	CF ₃	Br	SEt
	amino acid	H	CF ₃	Br	S-cyclopropyl
55	amino acid	H	CF ₃	Br	F
	amino acid	H	CF ₃	Br	Cl
	amino acid	H	CF ₃	Br	Br
	amino acid	H	CF ₃	Br	I
	amino acid	acyl	CF ₃	Br	H
60	amino acid	acyl	CF ₃	Br	NH ₂
	amino acid	acyl	CF ₃	Br	NH-cyclopropyl
	amino acid	acyl	CF ₃	Br	NH-methyl
	amino acid	acyl	CF ₃	Br	NH-ethyl
	amino acid	acyl	CF ₃	Br	NH-acetyl
65	amino acid	acyl	CF ₃	Br	OH
	amino acid	acyl	CF ₃	Br	OMe
	amino acid	acyl	CF ₃	Br	OEt
	amino acid	acyl	CF ₃	Br	O-cyclopropyl
	amino acid	acyl	CF ₃	Br	O-acetyl
	amino acid	acyl	CF ₃	Br	SH
	amino acid	acyl	CF ₃	Br	SMe
	amino acid	acyl	CF ₃	Br	SEt
	amino acid	acyl	CF ₃	Br	S-cyclopropyl
	amino acid	acyl	CF ₃	Br	F
	amino acid	acyl	CF ₃	Br	Cl
	amino acid	acyl	CF ₃	Br	Br
	amino acid	acyl	CF ₃	Br	I
	acyl	H	Br	Br	H
	acyl	H	Br	Br	NH ₂
	acyl	H	Br	Br	NH-cyclopropyl
	acyl	H	Br	Br	NH-methyl

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
acyl	H	Br	Br	NH-ethyl
acyl	H	Br	Br	NH-acetyl
acyl	H	Br	Br	OH
acyl	H	Br	Br	OMe
acyl	H	Br	Br	OEt
acyl	H	Br	Br	O-cyclopropyl
acyl	H	Br	Br	O-acetyl
acyl	H	Br	Br	SH
acyl	H	Br	Br	SMe
acyl	H	Br	Br	SEt
acyl	H	Br	Br	S-cyclopropyl
acyl	H	Br	Br	F
acyl	H	Br	Br	Cl
acyl	H	Br	Br	Br
acyl	H	Br	Br	I
acyl	acyl	Br	Br	H
acyl	acyl	Br	Br	NH ₂
acyl	acyl	Br	Br	NH-cyclopropyl
acyl	acyl	Br	Br	NH-methyl
acyl	acyl	Br	Br	NH-ethyl
acyl	acyl	Br	Br	NH-acetyl
acyl	acyl	Br	Br	NH-cyclopropyl
acyl	acyl	Br	Br	OH
acyl	acyl	Br	Br	OMe
acyl	acyl	Br	Br	OEt
acyl	acyl	Br	Br	O-cyclopropyl
acyl	acyl	Br	Br	O-acetyl
acyl	acyl	Br	Br	SH
acyl	acyl	Br	Br	SMe
acyl	acyl	Br	Br	SEt
acyl	acyl	Br	Br	S-cyclopropyl
acyl	acyl	Br	Br	F
acyl	acyl	Br	Br	Cl
acyl	acyl	Br	Br	Br
acyl	acyl	Br	Br	I
acyl	amino acid	Br	Br	H
acyl	amino acid	Br	Br	NH ₂
acyl	amino acid	Br	Br	NH-cyclopropyl
acyl	amino acid	Br	Br	NH-methyl
acyl	amino acid	Br	Br	NH-ethyl
acyl	amino acid	Br	Br	NH-acetyl
acyl	amino acid	Br	Br	OH
acyl	amino acid	Br	Br	OMe
acyl	amino acid	Br	Br	OEt
acyl	amino acid	Br	Br	O-cyclopropyl
acyl	amino acid	Br	Br	O-acetyl
acyl	amino acid	Br	Br	SH
acyl	amino acid	Br	Br	SMe
acyl	amino acid	Br	Br	SEt
acyl	amino acid	Br	Br	S-cyclopropyl
acyl	amino acid	Br	Br	F
acyl	amino acid	Br	Br	Cl
acyl	amino acid	Br	Br	Br
acyl	amino acid	Br	Br	I
H	acyl	Br	Br	H
H	acyl	Br	Br	NH ₂
H	acyl	Br	Br	NH-cyclopropyl
H	acyl	Br	Br	NH-methyl
H	acyl	Br	Br	NH-ethyl
H	acyl	Br	Br	NH-acetyl
H	acyl	Br	Br	OH
H	acyl	Br	Br	OMe
H	acyl	Br	Br	OEt
H	acyl	Br	Br	O-cyclopropyl
H	acyl	Br	Br	O-acetyl
H	acyl	Br	Br	SH
H	acyl	Br	Br	SMe
H	acyl	Br	Br	SEt
H	acyl	Br	Br	S-cyclopropyl
H	acyl	Br	Br	F
H	acyl	Br	Br	Cl
H	acyl	Br	Br	Br
H	acyl	Br	Br	I
H	amino acid	Br	Br	H
H	amino acid	Br	Br	NH ₂
H	amino acid	Br	Br	NH-cyclopropyl
H	amino acid	Br	Br	NH-methyl
H	amino acid	Br	Br	NH-ethyl
H	amino acid	Br	Br	NH-acetyl

TABLE 2-continued

	R ²	R ³	X ¹	X ²	Y
5	H	amino acid	Br	Br	NH-acetyl
	H	amino acid	Br	Br	OH
	H	amino acid	Br	Br	OMe
	H	amino acid	Br	Br	OEt
	H	amino acid	Br	Br	O-cyclopropyl
10	H	amino acid	Br	Br	O-acetyl
	H	amino acid	Br	Br	SH
	H	amino acid	Br	Br	SMe
	H	amino acid	Br	Br	SEt
	H	amino acid	Br	Br	S-cyclopropyl
15	H	amino acid	Br	Br	F
	H	amino acid	Br	Br	Cl
	H	amino acid	Br	Br	Br
	H	amino acid	Br	Br	I
	amino acid	amino acid	Br	Br	H
20	amino acid	amino acid	Br	Br	NH ₂
	amino acid	amino acid	Br	Br	NH-cyclopropyl
	amino acid	amino acid	Br	Br	NH-methyl
	amino acid	amino acid	Br	Br	NH-ethyl
	amino acid	amino acid	Br	Br	NH-acetyl
25	amino acid	amino acid	Br	Br	OH
	amino acid	amino acid	Br	Br	OMe
	amino acid	amino acid	Br	Br	OEt
	amino acid	amino acid	Br	Br	O-cyclopropyl
	amino acid	amino acid	Br	Br	O-acetyl
30	amino acid	amino acid	Br	Br	SH
	amino acid	amino acid	Br	Br	SMe
	amino acid	amino acid	Br	Br	SEt
	amino acid	amino acid	Br	Br	S-cyclopropyl
	amino acid	amino acid	Br	Br	F
35	amino acid	amino acid	Br	Br	Cl
	amino acid	amino acid	Br	Br	Br
	amino acid	amino acid	Br	Br	I
	amino acid	amino acid	Br	Br	H
	amino acid	H	Br	Br	NH ₂
40	amino acid	H	Br	Br	NH-cyclopropyl
	amino acid	H	Br	Br	NH-methyl
	amino acid	H	Br	Br	NH-ethyl
	amino acid	H	Br	Br	NH-acetyl
	amino acid	H	Br	Br	OH
45	amino acid	H	Br	Br	OMe
	amino acid	H	Br	Br	OEt
	amino acid	H	Br	Br	O-cyclopropyl
	amino acid	H	Br	Br	O-acetyl
	amino acid	H	Br	Br	SH
50	amino acid	H	Br	Br	SMe
	amino acid	H	Br	Br	SEt
	amino acid	H	Br	Br	S-cyclopropyl
	amino acid	H	Br	Br	F
	amino acid	H	Br	Br	Cl
55	amino acid	H	Br	Br	Br
	amino acid	H	Br	Br	I
	amino acid	acyl	Br	Br	H
	amino acid	acyl	Br	Br	NH ₂
	amino acid	acyl	Br	Br	NH-cyclopropyl
60	amino acid	acyl	Br	Br	NH-methyl
	amino acid	acyl	Br	Br	NH-ethyl
	amino acid	acyl	Br	Br	NH-acetyl
	amino acid	acyl	Br	Br	OH
	amino acid	acyl	Br	Br	OMe
65	amino acid	acyl	Br	Br	OEt
	amino acid	acyl	Br	Br	O-cyclopropyl
	amino acid	acyl	Br	Br	O-acetyl
	amino acid	acyl	Br	Br	SH
	amino acid	acyl	Br	Br	SMe
70	amino acid	acyl	Br	Br	SEt
	amino acid	acyl	Br	Br	S-cyclopropyl
	amino acid	acyl	Br	Br	F
	amino acid	acyl	Br	Br	Cl
	amino acid	acyl	Br	Br	Br
75	amino acid	acyl	Br	Br	I
	acyl	H	Cl	Br	H
	acyl	H	Cl	Br	NH ₂
	acyl	H	Cl	Br	NH-cyclopropyl
	acyl	H	Cl	Br	NH-methyl
80	acyl	H	Cl	Br	NH-ethyl
	acyl	H	Cl	Br	NH-acetyl

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
acyl	H	Cl	Br	OH
acyl	H	Cl	Br	OMe
acyl	H	Cl	Br	OEt
acyl	H	Cl	Br	O-cyclopropyl
acyl	H	Cl	Br	O-acetyl
acyl	H	Cl	Br	SH
acyl	H	Cl	Br	SMe
acyl	H	Cl	Br	SEt
acyl	H	Cl	Br	S-cyclopropyl
acyl	H	Cl	Br	F
acyl	H	Cl	Br	Cl
acyl	H	Cl	Br	Br
acyl	H	Cl	Br	I
acyl	acyl	Cl	Br	H
acyl	acyl	Cl	Br	NH ₂
acyl	acyl	Cl	Br	NH-cyclopropyl
acyl	acyl	Cl	Br	NH-methyl
acyl	acyl	Cl	Br	NH-ethyl
acyl	acyl	Cl	Br	NH-acetyl
acyl	acyl	Cl	Br	OH
acyl	acyl	Cl	Br	OMe
acyl	acyl	Cl	Br	OEt
acyl	acyl	Cl	Br	O-cyclopropyl
acyl	acyl	Cl	Br	O-acetyl
acyl	acyl	Cl	Br	SH
acyl	acyl	Cl	Br	SMe
acyl	acyl	Cl	Br	SEt
acyl	acyl	Cl	Br	S-cyclopropyl
acyl	acyl	Cl	Br	F
acyl	acyl	Cl	Br	Cl
acyl	acyl	Cl	Br	Br
acyl	acyl	Cl	Br	I
acyl	acyl	Cl	Br	H
acyl	amino acid	Cl	Br	H
acyl	amino acid	Cl	Br	NH ₂
acyl	amino acid	Cl	Br	NH-cyclopropyl
acyl	amino acid	Cl	Br	NH-methyl
acyl	amino acid	Cl	Br	NH-ethyl
acyl	amino acid	Cl	Br	NH-acetyl
acyl	amino acid	Cl	Br	OH
acyl	amino acid	Cl	Br	OMe
acyl	amino acid	Cl	Br	OEt
acyl	amino acid	Cl	Br	O-cyclopropyl
acyl	amino acid	Cl	Br	O-acetyl
acyl	amino acid	Cl	Br	SH
acyl	amino acid	Cl	Br	SMe
acyl	amino acid	Cl	Br	SEt
acyl	amino acid	Cl	Br	S-cyclopropyl
acyl	amino acid	Cl	Br	F
acyl	amino acid	Cl	Br	Cl
acyl	amino acid	Cl	Br	Br
acyl	amino acid	Cl	Br	I
H	acyl	Cl	Br	H
H	acyl	Cl	Br	NH ₂
H	acyl	Cl	Br	NH-cyclopropyl
H	acyl	Cl	Br	NH-methyl
H	acyl	Cl	Br	NH-ethyl
H	acyl	Cl	Br	NH-acetyl
H	acyl	Cl	Br	OH
H	acyl	Cl	Br	OMe
H	acyl	Cl	Br	OEt
H	acyl	Cl	Br	O-cyclopropyl
H	acyl	Cl	Br	O-acetyl
H	acyl	Cl	Br	SH
H	acyl	Cl	Br	SMe
H	acyl	Cl	Br	SEt
H	acyl	Cl	Br	S-cyclopropyl
H	acyl	Cl	Br	F
H	acyl	Cl	Br	Cl
H	acyl	Cl	Br	Br
H	acyl	Cl	Br	I
H	amino acid	Cl	Br	H
H	amino acid	Cl	Br	NH ₂
H	amino acid	Cl	Br	NH-cyclopropyl
H	amino acid	Cl	Br	NH-methyl
H	amino acid	Cl	Br	NH-ethyl
H	amino acid	Cl	Br	NH-acetyl
H	amino acid	Cl	Br	OH

TABLE 2-continued

	R ²	R ³	X ¹	X ²	Y
5	H	amino acid	Cl	Br	OMe
	H	amino acid	Cl	Br	OEt
	H	amino acid	Cl	Br	O-cyclopropyl
	H	amino acid	Cl	Br	O-acetyl
	H	amino acid	Cl	Br	SH
10	H	amino acid	Cl	Br	SMe
	H	amino acid	Cl	Br	SEt
	H	amino acid	Cl	Br	S-cyclopropyl
	H	amino acid	Cl	Br	F
	H	amino acid	Cl	Br	Cl
15	H	amino acid	Cl	Br	Br
	H	amino acid	Cl	Br	I
	amino acid	amino acid	Cl	Br	H
	amino acid	amino acid	Cl	Br	NH ₂
	amino acid	amino acid	Cl	Br	NH-cyclopropyl
20	amino acid	amino acid	Cl	Br	NH-methyl
	amino acid	amino acid	Cl	Br	NH-ethyl
	amino acid	amino acid	Cl	Br	NH-acetyl
	amino acid	amino acid	Cl	Br	OH
	amino acid	amino acid	Cl	Br	OMe
25	amino acid	amino acid	Cl	Br	OEt
	amino acid	amino acid	Cl	Br	O-cyclopropyl
	amino acid	amino acid	Cl	Br	O-acetyl
	amino acid	amino acid	Cl	Br	SH
	amino acid	amino acid	Cl	Br	SMe
30	amino acid	amino acid	Cl	Br	SEt
	amino acid	amino acid	Cl	Br	S-cyclopropyl
	amino acid	amino acid	Cl	Br	F
	amino acid	amino acid	Cl	Br	Cl
	amino acid	amino acid	Cl	Br	Br
35	amino acid	amino acid	Cl	Br	I
	amino acid	H	Cl	Br	H
	amino acid	H	Cl	Br	NH ₂
	amino acid	H	Cl	Br	NH-cyclopropyl
	amino acid	H	Cl	Br	NH-methyl
40	amino acid	H	Cl	Br	NH-ethyl
	amino acid	H	Cl	Br	NH-acetyl
	amino acid	H	Cl	Br	OH
	amino acid	H	Cl	Br	OMe
	amino acid	H	Cl	Br	OEt
45	amino acid	H	Cl	Br	O-cyclopropyl
	amino acid	H	Cl	Br	O-acetyl
	amino acid	H	Cl	Br	SH
	amino acid	H	Cl	Br	SMe
	amino acid	H	Cl	Br	SEt
50	amino acid	H	Cl	Br	S-cyclopropyl
	amino acid	H	Cl	Br	F
	amino acid	H	Cl	Br	Cl
	amino acid	H	Cl	Br	Br
	amino acid	H	Cl	Br	I
55	amino acid	acyl	Cl	Br	H
	amino acid	acyl	Cl	Br	NH ₂
	amino acid	acyl	Cl	Br	NH-cyclopropyl
	amino acid	acyl	Cl	Br	NH-methyl
	amino acid	acyl	Cl	Br	NH-ethyl
60	amino acid	acyl	Cl	Br	NH-acetyl
	amino acid	acyl	Cl	Br	OH
	amino acid	acyl	Cl	Br	OMe
	amino acid	acyl	Cl	Br	OEt
	amino acid	acyl	Cl	Br	O-cyclopropyl
65	amino acid	acyl	Cl	Br	O-acetyl
	amino acid	acyl	Cl	Br	SH
	amino acid	acyl	Cl	Br	SMe
	amino acid	acyl	Cl	Br	SEt
	amino acid	acyl	Cl	Br	S-cyclopropyl
	amino acid	acyl	Cl	Br	F
	amino acid	acyl	Cl	Br	Cl
	amino acid	acyl	Cl	Br	Br
	amino acid	acyl	Cl	Br	I
	acyl	H	F	Br	H
	acyl	H	F	Br	NH ₂
	acyl	H	F	Br	NH-cyclopropyl
	acyl	H	F	Br	NH-methyl
	acyl	H	F	Br	NH-ethyl
	acyl	H	F	Br	NH-acetyl
	acyl	H	F	Br	OH
	acyl	H	F	Br	OMe

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
acyl	H	F	Br	OEt
acyl	H	F	Br	O-cyclopropyl
acyl	H	F	Br	O-acetyl
acyl	H	F	Br	SH
acyl	H	F	Br	SMe
acyl	H	F	Br	SEt
acyl	H	F	Br	S-cyclopropyl
acyl	H	F	Br	F
acyl	H	F	Br	Cl
acyl	H	F	Br	Br
acyl	H	F	Br	I
acyl	acyl	F	Br	H
acyl	acyl	F	Br	NH ₂
acyl	acyl	F	Br	NH-cyclopropyl
acyl	acyl	F	Br	NH-methyl
acyl	acyl	F	Br	NH-ethyl
acyl	acyl	F	Br	NH-acetyl
acyl	acyl	F	Br	OH
acyl	acyl	F	Br	OMe
acyl	acyl	F	Br	OEt
acyl	acyl	F	Br	O-cyclopropyl
acyl	acyl	F	Br	O-acetyl
acyl	acyl	F	Br	SH
acyl	acyl	F	Br	SMe
acyl	acyl	F	Br	SEt
acyl	acyl	F	Br	S-cyclopropyl
acyl	acyl	F	Br	F
acyl	acyl	F	Br	Cl
acyl	acyl	F	Br	Br
acyl	acyl	F	Br	I
acyl	acyl	F	Br	H
acyl	amino acid	F	Br	H
acyl	amino acid	F	Br	NH ₂
acyl	amino acid	F	Br	NH-cyclopropyl
acyl	amino acid	F	Br	NH-methyl
acyl	amino acid	F	Br	NH-ethyl
acyl	amino acid	F	Br	NH-acetyl
acyl	amino acid	F	Br	OH
acyl	amino acid	F	Br	OMe
acyl	amino acid	F	Br	OEt
acyl	amino acid	F	Br	O-cyclopropyl
acyl	amino acid	F	Br	O-acetyl
acyl	amino acid	F	Br	SH
acyl	amino acid	F	Br	SMe
acyl	amino acid	F	Br	SEt
acyl	amino acid	F	Br	S-cyclopropyl
acyl	amino acid	F	Br	F
acyl	amino acid	F	Br	Cl
acyl	amino acid	F	Br	Br
acyl	amino acid	F	Br	I
H	acyl	F	Br	H
H	acyl	F	Br	NH ₂
H	acyl	F	Br	NH-cyclopropyl
H	acyl	F	Br	NH-methyl
H	acyl	F	Br	NH-ethyl
H	acyl	F	Br	NH-acetyl
H	acyl	F	Br	OH
H	acyl	F	Br	OMe
H	acyl	F	Br	OEt
H	acyl	F	Br	O-cyclopropyl
H	acyl	F	Br	O-acetyl
H	acyl	F	Br	SH
H	acyl	F	Br	SMe
H	acyl	F	Br	SEt
H	acyl	F	Br	S-cyclopropyl
H	acyl	F	Br	F
H	acyl	F	Br	Cl
H	acyl	F	Br	Br
H	acyl	F	Br	I
H	acyl	F	Br	H
H	amino acid	F	Br	H
H	amino acid	F	Br	NH ₂
H	amino acid	F	Br	NH-cyclopropyl
H	amino acid	F	Br	NH-methyl
H	amino acid	F	Br	NH-ethyl
H	amino acid	F	Br	NH-acetyl
H	amino acid	F	Br	OH
H	amino acid	F	Br	OMe
H	amino acid	F	Br	OEt
H	amino acid	F	Br	O-cyclopropyl

TABLE 2-continued

	R ²	R ³	X ¹	X ²	Y
5	H	amino acid	F	Br	O-cyclopropyl
	H	amino acid	F	Br	O-acetyl
	H	amino acid	F	Br	SH
	H	amino acid	F	Br	SMe
	H	amino acid	F	Br	SEt
10	H	amino acid	F	Br	S-cyclopropyl
	H	amino acid	F	Br	F
	H	amino acid	F	Br	Cl
	H	amino acid	F	Br	Br
	H	amino acid	F	Br	I
15	amino acid	amino acid	F	Br	H
	amino acid	amino acid	F	Br	NH ₂
	amino acid	amino acid	F	Br	NH-cyclopropyl
	amino acid	amino acid	F	Br	NH-methyl
	amino acid	amino acid	F	Br	NH-ethyl
20	amino acid	amino acid	F	Br	NH-acetyl
	amino acid	amino acid	F	Br	OH
	amino acid	amino acid	F	Br	OMe
	amino acid	amino acid	F	Br	OEt
	amino acid	amino acid	F	Br	O-cyclopropyl
25	amino acid	amino acid	F	Br	O-acetyl
	amino acid	amino acid	F	Br	SH
	amino acid	amino acid	F	Br	SMe
	amino acid	amino acid	F	Br	SEt
	amino acid	amino acid	F	Br	S-cyclopropyl
30	amino acid	amino acid	F	Br	F
	amino acid	amino acid	F	Br	Cl
	amino acid	amino acid	F	Br	Br
	amino acid	amino acid	F	Br	I
	amino acid	H	F	Br	H
35	amino acid	H	F	Br	NH ₂
	amino acid	H	F	Br	NH-cyclopropyl
	amino acid	H	F	Br	NH-methyl
	amino acid	H	F	Br	NH-ethyl
	amino acid	H	F	Br	NH-acetyl
40	amino acid	H	F	Br	OH
	amino acid	H	F	Br	OMe
	amino acid	H	F	Br	OEt
	amino acid	H	F	Br	O-cyclopropyl
	amino acid	H	F	Br	O-acetyl
45	amino acid	H	F	Br	SH
	amino acid	H	F	Br	SMe
	amino acid	H	F	Br	SEt
	amino acid	H	F	Br	S-cyclopropyl
	amino acid	H	F	Br	F
50	amino acid	H	F	Br	Cl
	amino acid	H	F	Br	Br
	amino acid	H	F	Br	I
	amino acid	acyl	F	Br	H
	amino acid	acyl	F	Br	NH ₂
55	amino acid	acyl	F	Br	NH-cyclopropyl
	amino acid	acyl	F	Br	NH-methyl
	amino acid	acyl	F	Br	NH-ethyl
	amino acid	acyl	F	Br	NH-acetyl
	amino acid	acyl	F	Br	OH
60	amino acid	acyl	F	Br	OMe
	amino acid	acyl	F	Br	OEt
	amino acid	acyl	F	Br	O-cyclopropyl
	amino acid	acyl	F	Br	O-acetyl
	amino acid	acyl	F	Br	SH
65	amino acid	acyl	F	Br	SMe
	amino acid	acyl	F	Br	SEt
	amino acid	acyl	F	Br	S-cyclopropyl
	amino acid	acyl	F	Br	F
	amino acid	acyl	F	Br	Cl
	amino acid	acyl	F	Br	Br
	amino acid	acyl	F	Br	I
	acyl	H	NH ₂	Br	H
	acyl	H	NH ₂	Br	NH ₂
	acyl	H	NH ₂	Br	NH-cyclopropyl
	acyl	H	NH ₂	Br	NH-methyl
	acyl	H	NH ₂	Br	NH-ethyl
	acyl	H	NH ₂	Br	NH-acetyl
	acyl	H	NH ₂	Br	OH
	acyl	H	NH ₂	Br	OMe
	acyl	H	NH ₂	Br	OEt
	acyl	H	NH ₂	Br	O-cyclopropyl

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
acyl	H	NH ₂	Br	O-acetyl
acyl	H	NH ₂	Br	SH
acyl	H	NH ₂	Br	SMe
acyl	H	NH ₂	Br	SEt
acyl	H	NH ₂	Br	S-cyclopropyl
acyl	H	NH ₂	Br	F
acyl	H	NH ₂	Br	Cl
acyl	H	NH ₂	Br	Br
acyl	H	NH ₂	Br	I
acyl	acyl	NH ₂	Br	H
acyl	acyl	NH ₂	Br	NH ₂
acyl	acyl	NH ₂	Br	NH-cyclopropyl
acyl	acyl	NH ₂	Br	NH-methyl
acyl	acyl	NH ₂	Br	NH-ethyl
acyl	acyl	NH ₂	Br	NH-acetyl
acyl	acyl	NH ₂	Br	OH
acyl	acyl	NH ₂	Br	OMe
acyl	acyl	NH ₂	Br	OEt
acyl	acyl	NH ₂	Br	O-cyclopropyl
acyl	acyl	NH ₂	Br	O-acetyl
acyl	acyl	NH ₂	Br	SH
acyl	acyl	NH ₂	Br	SMe
acyl	acyl	NH ₂	Br	SEt
acyl	acyl	NH ₂	Br	S-cyclopropyl
acyl	acyl	NH ₂	Br	F
acyl	acyl	NH ₂	Br	Cl
acyl	acyl	NH ₂	Br	Br
acyl	acyl	NH ₂	Br	I
acyl	amino acid	NH ₂	Br	H
acyl	amino acid	NH ₂	Br	NH ₂
acyl	amino acid	NH ₂	Br	NH-cyclopropyl
acyl	amino acid	NH ₂	Br	NH-methyl
acyl	amino acid	NH ₂	Br	NH-ethyl
acyl	amino acid	NH ₂	Br	NH-acetyl
acyl	amino acid	NH ₂	Br	OH
acyl	amino acid	NH ₂	Br	OMe
acyl	amino acid	NH ₂	Br	OEt
acyl	amino acid	NH ₂	Br	O-cyclopropyl
acyl	amino acid	NH ₂	Br	O-acetyl
acyl	amino acid	NH ₂	Br	SH
acyl	amino acid	NH ₂	Br	SMe
acyl	amino acid	NH ₂	Br	SEt
acyl	amino acid	NH ₂	Br	S-cyclopropyl
acyl	amino acid	NH ₂	Br	F
acyl	amino acid	NH ₂	Br	Cl
acyl	amino acid	NH ₂	Br	Br
acyl	amino acid	NH ₂	Br	I
H	acyl	NH ₂	Br	H
H	acyl	NH ₂	Br	NH ₂
H	acyl	NH ₂	Br	NH-cyclopropyl
H	acyl	NH ₂	Br	NH-methyl
H	acyl	NH ₂	Br	NH-ethyl
H	acyl	NH ₂	Br	NH-acetyl
H	acyl	NH ₂	Br	OH
H	acyl	NH ₂	Br	OMe
H	acyl	NH ₂	Br	OEt
H	acyl	NH ₂	Br	O-cyclopropyl
H	acyl	NH ₂	Br	O-acetyl
H	acyl	NH ₂	Br	SH
H	acyl	NH ₂	Br	SMe
H	acyl	NH ₂	Br	SEt
H	acyl	NH ₂	Br	S-cyclopropyl
H	acyl	NH ₂	Br	F
H	acyl	NH ₂	Br	Cl
H	acyl	NH ₂	Br	Br
H	acyl	NH ₂	Br	I
H	amino acid	NH ₂	Br	H
H	amino acid	NH ₂	Br	NH ₂
H	amino acid	NH ₂	Br	NH-cyclopropyl
H	amino acid	NH ₂	Br	NH-methyl
H	amino acid	NH ₂	Br	NH-ethyl
H	amino acid	NH ₂	Br	NH-acetyl
H	amino acid	NH ₂	Br	OH
H	amino acid	NH ₂	Br	OMe
H	amino acid	NH ₂	Br	OEt
H	amino acid	NH ₂	Br	O-cyclopropyl
H	amino acid	NH ₂	Br	O-acetyl

TABLE 2-continued

	R ²	R ³	X ¹	X ²	Y
5	H	amino acid	NH ₂	Br	SH
	H	amino acid	NH ₂	Br	SMe
	H	amino acid	NH ₂	Br	SEt
	H	amino acid	NH ₂	Br	S-cyclopropyl
	H	amino acid	NH ₂	Br	F
	H	amino acid	NH ₂	Br	Cl
10	H	amino acid	NH ₂	Br	Br
	H	amino acid	NH ₂	Br	I
	amino acid	amino acid	NH ₂	Br	H
	amino acid	amino acid	NH ₂	Br	NH ₂
	amino acid	amino acid	NH ₂	Br	NH-cyclopropyl
	amino acid	amino acid	NH ₂	Br	NH-methyl
15	amino acid	amino acid	NH ₂	Br	NH-ethyl
	amino acid	amino acid	NH ₂	Br	NH-acetyl
	amino acid	amino acid	NH ₂	Br	OH
	amino acid	amino acid	NH ₂	Br	OMe
	amino acid	amino acid	NH ₂	Br	OEt
	amino acid	amino acid	NH ₂	Br	O-cyclopropyl
	amino acid	amino acid	NH ₂	Br	O-acetyl
20	amino acid	amino acid	NH ₂	Br	SH
	amino acid	amino acid	NH ₂	Br	SMe
	amino acid	amino acid	NH ₂	Br	SEt
	amino acid	amino acid	NH ₂	Br	S-cyclopropyl
	amino acid	amino acid	NH ₂	Br	F
	amino acid	amino acid	NH ₂	Br	Cl
25	amino acid	amino acid	NH ₂	Br	Br
	amino acid	amino acid	NH ₂	Br	I
	amino acid	H	NH ₂	Br	H
	amino acid	H	NH ₂	Br	NH ₂
	amino acid	H	NH ₂	Br	NH-cyclopropyl
	amino acid	H	NH ₂	Br	NH-methyl
30	amino acid	H	NH ₂	Br	NH-ethyl
	amino acid	H	NH ₂	Br	NH-acetyl
	amino acid	H	NH ₂	Br	OH
	amino acid	H	NH ₂	Br	OMe
	amino acid	H	NH ₂	Br	OEt
	amino acid	H	NH ₂	Br	O-cyclopropyl
	amino acid	H	NH ₂	Br	O-acetyl
35	amino acid	H	NH ₂	Br	SET
	amino acid	H	NH ₂	Br	SMe
	amino acid	H	NH ₂	Br	SEt
	amino acid	H	NH ₂	Br	S-cyclopropyl
	amino acid	H	NH ₂	Br	F
	amino acid	H	NH ₂	Br	Cl
	amino acid	H	NH ₂	Br	Br
40	amino acid	H	NH ₂	Br	I
	amino acid	acyl	NH ₂	Br	H
	amino acid	acyl	NH ₂	Br	NH ₂
	amino acid	acyl	NH ₂	Br	NH-cyclopropyl
	amino acid	acyl	NH ₂	Br	NH-methyl
45	amino acid	acyl	NH ₂	Br	NH-ethyl
	amino acid	acyl	NH ₂	Br	NH-acetyl
	amino acid	acyl	NH ₂	Br	OH
	amino acid	acyl	NH ₂	Br	OMe
	amino acid	acyl	NH ₂	Br	OFt
	amino acid	acyl	NH ₂	Br	O-cyclopropyl
	amino acid	acyl	NH ₂	Br	O-acetyl
50	amino acid	acyl	NH ₂	Br	SH
	amino acid	acyl	NH ₂	Br	SMe
	amino acid	acyl	NH ₂	Br	SEt
	amino acid	acyl	NH ₂	Br	S-cyclopropyl
	amino acid	acyl	NH ₂	Br	F
55	amino acid	acyl	NH ₂	Br	Cl
	amino acid	acyl	NH ₂	Br	Br
	amino acid	acyl	NH ₂	Br	I
	acyl	H	SH	Br	H
	acyl	H	SH	Br	NH ₂
	acyl	H	SH	Br	NH-cyclopropyl
60	acyl	H	SH	Br	NH-methyl
	acyl	H	SH	Br	NH-ethyl
	acyl	H	SH	Br	NH-acetyl
	acyl	H	SH	Br	OH
	acyl	H	SH	Br	OMe
	acyl	H	SH	Br	OFt
	acyl	H	SH	Br	O-cyclopropyl
65	acyl	H	SH	Br	O-acetyl
	acyl	H	SH	Br	SH

TABLE 2-continued

	R ²	R ³	X ¹	X ²	Y
5	H	amino acid	SH	Br	SEt
	H	amino acid	SH	Br	S-cyclopropyl
	H	amino acid	SH	Br	F
	H	amino acid	SH	Br	Cl
	H	amino acid	SH	Br	Br
	H	amino acid	SH	Br	I
10	amino acid	amino acid	SH	Br	H
	amino acid	amino acid	SH	Br	NH ₂
	amino acid	amino acid	SH	Br	NH-cyclopropyl
	amino acid	amino acid	SH	Br	NH-methyl
	amino acid	amino acid	SH	Br	NH-ethyl
	amino acid	amino acid	SH	Br	NH-acetyl
15	amino acid	amino acid	SH	Br	OH
	amino acid	amino acid	SH	Br	OMe
	amino acid	amino acid	SH	Br	OEt
	amino acid	amino acid	SH	Br	O-cyclopropyl
	amino acid	amino acid	SH	Br	O-acetyl
	amino acid	amino acid	SH	Br	SH
20	amino acid	amino acid	SH	Br	SMe
	amino acid	amino acid	SH	Br	SEt
	amino acid	amino acid	SH	Br	S-cyclopropyl
	amino acid	amino acid	SH	Br	F
	amino acid	amino acid	SH	Br	Cl
	amino acid	amino acid	SH	Br	Br
	amino acid	amino acid	SH	Br	I
25	amino acid	H	SH	Br	H
	amino acid	H	SH	Br	NH ₂
	amino acid	H	SH	Br	NH-cyclopropyl
	amino acid	H	SH	Br	NH-methyl
	amino acid	H	SH	Br	NH-ethyl
	amino acid	H	SH	Br	NH-acetyl
30	amino acid	H	SH	Br	OH
	amino acid	H	SH	Br	OMe
	amino acid	H	SH	Br	OEt
	amino acid	H	SH	Br	O-cyclopropyl
	amino acid	H	SH	Br	O-acetyl
	amino acid	H	SH	Br	SH
35	amino acid	H	SH	Br	SMe
	amino acid	H	SH	Br	SEt
	amino acid	H	SH	Br	S-cyclopropyl
	amino acid	H	SH	Br	F
	amino acid	H	SH	Br	Cl
	amino acid	H	SH	Br	Br
	amino acid	H	SH	Br	I
40	amino acid	acyl	SH	Br	H
	amino acid	acyl	SH	Br	NH ₂
	amino acid	acyl	SH	Br	NH-cyclopropyl
	amino acid	acyl	SH	Br	NH-methyl
	amino acid	acyl	SH	Br	NH-ethyl
	amino acid	acyl	SH	Br	NH-acetyl
45	amino acid	acyl	SH	Br	OH
	amino acid	acyl	SH	Br	OMe
	amino acid	acyl	SH	Br	OEt
	amino acid	acyl	SH	Br	O-cyclopropyl
	amino acid	acyl	SH	Br	O-acetyl
	amino acid	acyl	SH	Br	SH
50	amino acid	acyl	SH	Br	SMe
	amino acid	acyl	SH	Br	SEt
	amino acid	acyl	SH	Br	S-cyclopropyl
	amino acid	acyl	SH	Br	F
	amino acid	acyl	SH	Br	Cl
	amino acid	acyl	SH	Br	Br
	amino acid	acyl	SH	Br	I
55	acyl	H	OH	Br	H
	acyl	H	OH	Br	NH ₂
	acyl	H	OH	Br	NH-cyclopropyl
	acyl	H	OH	Br	NH-methyl
	acyl	H	OH	Br	NH-ethyl
	acyl	H	OH	Br	NH-acetyl
60	acyl	H	OH	Br	OH
	acyl	H	OH	Br	OMe
	acyl	H	OH	Br	OEt
	acyl	H	OH	Br	O-cyclopropyl
	acyl	H	OH	Br	O-acetyl
	acyl	H	OH	Br	SH
65	acyl	H	OH	Br	SMe
	acyl	H	OH	Br	SEt

TABLE 2-continued

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TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
acyl	H	CH ₃	Cl	Cl
acyl	H	CH ₃	Cl	Br
acyl	H	CH ₃	Cl	I
acyl	acyl	CH ₃	Cl	H
acyl	acyl	CH ₃	Cl	NH ₂
acyl	acyl	CH ₃	Cl	NH-cyclopropyl
acyl	acyl	CH ₃	Cl	NH-methyl
acyl	acyl	CH ₃	Cl	NH-ethyl
acyl	acyl	CH ₃	Cl	NH-acetyl
acyl	acyl	CH ₃	Cl	OH
acyl	acyl	CH ₃	Cl	OMe
acyl	acyl	CH ₃	Cl	OEt
acyl	acyl	CH ₃	Cl	O-cyclopropyl
acyl	acyl	CH ₃	Cl	O-acetyl
acyl	acyl	CH ₃	Cl	SH
acyl	acyl	CH ₃	Cl	SMe
acyl	acyl	CH ₃	Cl	SEt
acyl	acyl	CH ₃	Cl	S-cyclopropyl
acyl	acyl	CH ₃	Cl	F
acyl	acyl	CH ₃	Cl	Cl
acyl	acyl	CH ₃	Cl	Br
acyl	acyl	CH ₃	Cl	I
acyl	amino acid	CH ₃	Cl	H
acyl	amino acid	CH ₃	Cl	NH ₂
acyl	amino acid	CH ₃	Cl	NH-cyclopropyl
acyl	amino acid	CH ₃	Cl	NH-methyl
acyl	amino acid	CH ₃	Cl	NH-ethyl
acyl	amino acid	CH ₃	Cl	NH-acetyl
acyl	amino acid	CH ₃	Cl	OH
acyl	amino acid	CH ₃	Cl	OMe
acyl	amino acid	CH ₃	Cl	OEt
acyl	amino acid	CH ₃	Cl	O-cyclopropyl
acyl	amino acid	CH ₃	Cl	O-acetyl
acyl	amino acid	CH ₃	Cl	SH
acyl	amino acid	CH ₃	Cl	SMe
acyl	amino acid	CH ₃	Cl	SEt
acyl	amino acid	CH ₃	Cl	S-cyclopropyl
acyl	amino acid	CH ₃	Cl	F
acyl	amino acid	CH ₃	Cl	Cl
acyl	amino acid	CH ₃	Cl	Br
acyl	amino acid	CH ₃	Cl	I
H	acyl	CH ₃	Cl	H
H	acyl	CH ₃	Cl	NH ₂
H	acyl	CH ₃	Cl	NH-cyclopropyl
H	acyl	CH ₃	Cl	NH-methyl
H	acyl	CH ₃	Cl	NH-ethyl
H	acyl	CH ₃	Cl	NH-acetyl
H	acyl	CH ₃	Cl	OH
H	acyl	CH ₃	Cl	OMe
H	acyl	CH ₃	Cl	OEt
H	acyl	CH ₃	Cl	O-cyclopropyl
H	acyl	CH ₃	Cl	O-acetyl
H	acyl	CH ₃	Cl	SH
H	acyl	CH ₃	Cl	SMe
H	acyl	CH ₃	Cl	SEt
H	acyl	CH ₃	Cl	S-cyclopropyl
H	acyl	CH ₃	Cl	F
H	acyl	CH ₃	Cl	Cl
H	acyl	CH ₃	Cl	Br
H	acyl	CH ₃	Cl	I
H	amino acid	CH ₃	Cl	H
H	amino acid	CH ₃	Cl	NH ₂
H	amino acid	CH ₃	Cl	NH-cyclopropyl
H	amino acid	CH ₃	Cl	NH-methyl
H	amino acid	CH ₃	Cl	NH-ethyl
H	amino acid	CH ₃	Cl	NH-acetyl
H	amino acid	CH ₃	Cl	OH
H	amino acid	CH ₃	Cl	OMe
H	amino acid	CH ₃	Cl	OEt
H	amino acid	CH ₃	Cl	O-cyclopropyl
H	amino acid	CH ₃	Cl	O-acetyl
H	amino acid	CH ₃	Cl	SH
H	amino acid	CH ₃	Cl	SMe
H	amino acid	CH ₃	Cl	SEt
H	amino acid	CH ₃	Cl	S-cyclopropyl
H	amino acid	CH ₃	Cl	F
H	amino acid	CH ₃	Cl	Cl

TABLE 2-continued

	R ²	R ³	X ¹	X ²	Y
5	H	amino acid	CH ₃	Cl	Br
	H	amino acid	CH ₃	Cl	I
	amino acid	amino acid	CH ₃	Cl	H
	amino acid	amino acid	CH ₃	Cl	NH ₂
	amino acid	amino acid	CH ₃	Cl	NH-cyclopropyl
	amino acid	amino acid	CH ₃	Cl	NH-methyl
10	amino acid	amino acid	CH ₃	Cl	NH-ethyl
	amino acid	amino acid	CH ₃	Cl	NH-acetyl
	amino acid	amino acid	CH ₃	Cl	OH
	amino acid	amino acid	CH ₃	Cl	OMe
	amino acid	amino acid	CH ₃	Cl	OEt
	amino acid	amino acid	CH ₃	Cl	O-cyclopropyl
15	amino acid	amino acid	CH ₃	Cl	O-acetyl
	amino acid	amino acid	CH ₃	Cl	SH
	amino acid	amino acid	CH ₃	Cl	SMe
	amino acid	amino acid	CH ₃	Cl	SEt
	amino acid	amino acid	CH ₃	Cl	S-cyclopropyl
	amino acid	amino acid	CH ₃	Cl	F
20	amino acid	amino acid	CH ₃	Cl	Cl
	amino acid	amino acid	CH ₃	Cl	Br
	amino acid	amino acid	CH ₃	Cl	I
	amino acid	H	CH ₃	Cl	H
	amino acid	H	CH ₃	Cl	NH ₂
	amino acid	H	CH ₃	Cl	NH-cyclopropyl
25	amino acid	H	CH ₃	Cl	NH-methyl
	amino acid	H	CH ₃	Cl	NH-ethyl
	amino acid	H	CH ₃	Cl	NH-acetyl
	amino acid	H	CH ₃	Cl	OH
	amino acid	H	CH ₃	Cl	OMe
	amino acid	H	CH ₃	Cl	OEt
	amino acid	H	CH ₃	Cl	O-cyclopropyl
30	amino acid	H	CH ₃	Cl	O-acetyl
	amino acid	H	CH ₃	Cl	SH
	amino acid	H	CH ₃	Cl	SMe
	amino acid	H	CH ₃	Cl	SEt
	amino acid	H	CH ₃	Cl	S-cyclopropyl
	amino acid	H	CH ₃	Cl	F
35	amino acid	H	CH ₃	Cl	Cl
	amino acid	H	CH ₃	Cl	Br
	amino acid	H	CH ₃	Cl	I
	amino acid	acyl	CH ₃	Cl	H
	amino acid	acyl	CH ₃	Cl	NH ₂
	amino acid	acyl	CH ₃	Cl	NH-cyclopropyl
40	amino acid	acyl	CH ₃	Cl	NH-methyl
	amino acid	acyl	CH ₃	Cl	NH-ethyl
	amino acid	acyl	CH ₃	Cl	NH-acetyl
	amino acid	acyl	CH ₃	Cl	OH
	amino acid	acyl	CH ₃	Cl	OMe
	amino acid	acyl	CH ₃	Cl	OEt
	amino acid	acyl	CH ₃	Cl	O-cyclopropyl
45	amino acid	acyl	CH ₃	Cl	O-acetyl
	amino acid	acyl	CH ₃	Cl	SH
	amino acid	acyl	CH ₃	Cl	SMe
	amino acid	acyl	CH ₃	Cl	SEt
	amino acid	acyl	CH ₃	Cl	S-cyclopropyl
	amino acid	acyl	CH ₃	Cl	F
50	amino acid	acyl	CH ₃	Cl	Cl
	amino acid	acyl	CH ₃	Cl	Br
	amino acid	acyl	CH ₃	Cl	I
	acyl	H	CF ₃	Cl	H
	acyl	H	CF ₃	Cl	NH ₂
	acyl	H	CF ₃	Cl	NH-cyclopropyl
55	acyl	H	CF ₃	Cl	NH-methyl
	acyl	H	CF ₃	Cl	NH-ethyl
	acyl	H	CF ₃	Cl	NH-acetyl
	acyl	H	CF ₃	Cl	OH
	acyl	H	CF ₃	Cl	OMe
	acyl	H	CF ₃	Cl	OEt
	acyl	H	CF ₃	Cl	O-cyclopropyl
60	acyl	H	CF ₃	Cl	O-acetyl
	acyl	H	CF ₃	Cl	SH
	acyl	H	CF ₃	Cl	SMe
	acyl	H	CF ₃	Cl	SEt
	acyl	H	CF ₃	Cl	S-cyclopropyl
	acyl	H	CF ₃	Cl	F
65	acyl	H	CF ₃	Cl	Cl
	acyl	H	CF ₃	Cl	Br

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
acyl	H	CF ₃	Cl	I
acyl	acyl	CF ₃	Cl	H
acyl	acyl	CF ₃	Cl	NH ₂
acyl	acyl	CF ₃	Cl	NH-cyclopropyl
acyl	acyl	CF ₃	Cl	NH-methyl
acyl	acyl	CF ₃	Cl	NH-ethyl
acyl	acyl	CF ₃	Cl	NH-acetyl
acyl	acyl	CF ₃	Cl	OH
acyl	acyl	CF ₃	Cl	OMe
acyl	acyl	CF ₃	Cl	OEt
acyl	acyl	CF ₃	Cl	O-cyclopropyl
acyl	acyl	CF ₃	Cl	O-acetyl
acyl	acyl	CF ₃	Cl	SH
acyl	acyl	CF ₃	Cl	SMe
acyl	acyl	CF ₃	Cl	SEt
acyl	acyl	CF ₃	Cl	S-cyclopropyl
acyl	acyl	CF ₃	Cl	F
acyl	acyl	CF ₃	Cl	Cl
acyl	acyl	CF ₃	Cl	Br
acyl	acyl	CF ₃	Cl	I
acyl	acyl	CF ₃	Cl	H
acyl	amino acid	CF ₃	Cl	H
acyl	amino acid	CF ₃	Cl	NH ₂
acyl	amino acid	CF ₃	Cl	NH-cyclopropyl
acyl	amino acid	CF ₃	Cl	NH-methyl
acyl	amino acid	CF ₃	Cl	NH-ethyl
acyl	amino acid	CF ₃	Cl	NH-acetyl
acyl	amino acid	CF ₃	Cl	OH
acyl	amino acid	CF ₃	Cl	OMe
acyl	amino acid	CF ₃	Cl	OEt
acyl	amino acid	CF ₃	Cl	O-cyclopropyl
acyl	amino acid	CF ₃	Cl	O-acetyl
acyl	amino acid	CF ₃	Cl	SH
acyl	amino acid	CF ₃	Cl	SMe
acyl	amino acid	CF ₃	Cl	SEt
acyl	amino acid	CF ₃	Cl	S-cyclopropyl
acyl	amino acid	CF ₃	Cl	F
acyl	amino acid	CF ₃	Cl	Cl
acyl	amino acid	CF ₃	Cl	Br
acyl	amino acid	CF ₃	Cl	I
H	acyl	CF ₃	Cl	H
H	acyl	CF ₃	Cl	NH ₂
H	acyl	CF ₃	Cl	NH-cyclopropyl
H	acyl	CF ₃	Cl	NH-methyl
H	acyl	CF ₃	Cl	NH-ethyl
H	acyl	CF ₃	Cl	NH-acetyl
H	acyl	CF ₃	Cl	OH
H	acyl	CF ₃	Cl	OMe
H	acyl	CF ₃	Cl	OEt
H	acyl	CF ₃	Cl	O-cyclopropyl
H	acyl	CF ₃	Cl	O-acetyl
H	acyl	CF ₃	Cl	SH
H	acyl	CF ₃	Cl	SMe
H	acyl	CF ₃	Cl	SEt
H	acyl	CF ₃	Cl	S-cyclopropyl
H	acyl	CF ₃	Cl	F
H	acyl	CF ₃	Cl	Cl
H	acyl	CF ₃	Cl	Br
H	acyl	CF ₃	Cl	I
H	amino acid	CF ₃	Cl	H
H	amino acid	CF ₃	Cl	NH ₂
H	amino acid	CF ₃	Cl	NH-cyclopropyl
H	amino acid	CF ₃	Cl	NH-methyl
H	amino acid	CF ₃	Cl	NH-ethyl
H	amino acid	CF ₃	Cl	NH-acetyl
H	amino acid	CF ₃	Cl	OH
H	amino acid	CF ₃	Cl	OMe
H	amino acid	CF ₃	Cl	OEt
H	amino acid	CF ₃	Cl	O-cyclopropyl
H	amino acid	CF ₃	Cl	O-acetyl
H	amino acid	CF ₃	Cl	SH
H	amino acid	CF ₃	Cl	SMe
H	amino acid	CF ₃	Cl	SEt
H	amino acid	CF ₃	Cl	S-cyclopropyl
H	amino acid	CF ₃	Cl	F
H	amino acid	CF ₃	Cl	Cl
H	amino acid	CF ₃	Cl	Br
H	amino acid	CF ₃	Cl	I

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y	
5	amino acid	CF ₃	Cl	H	
	amino acid	CF ₃	Cl	NH ₂	
	amino acid	CF ₃	Cl	NH-cyclopropyl	
	amino acid	CF ₃	Cl	NH-methyl	
	amino acid	CF ₃	Cl	NH-ethyl	
	amino acid	CF ₃	Cl	NH-acetyl	
10	amino acid	CF ₃	Cl	OH	
	amino acid	CF ₃	Cl	OMe	
	amino acid	CF ₃	Cl	OEt	
	amino acid	CF ₃	Cl	O-cyclopropyl	
	amino acid	CF ₃	Cl	O-acetyl	
	amino acid	CF ₃	Cl	SH	
15	amino acid	CF ₃	Cl	SMe	
	amino acid	CF ₃	Cl	SEt	
	amino acid	CF ₃	Cl	S-cyclopropyl	
	amino acid	CF ₃	Cl	F	
	amino acid	CF ₃	Cl	Cl	
	amino acid	CF ₃	Cl	Br	
20	amino acid	CF ₃	Cl	I	
	amino acid	H	CF ₃	Cl	H
	amino acid	H	CF ₃	Cl	NH ₂
	amino acid	H	CF ₃	Cl	NH-cyclopropyl
	amino acid	H	CF ₃	Cl	NH-methyl
	amino acid	H	CF ₃	Cl	NH-ethyl
25	amino acid	H	CF ₃	Cl	NH-acetyl
	amino acid	H	CF ₃	Cl	OH
	amino acid	H	CF ₃	Cl	OMe
	amino acid	H	CF ₃	Cl	OEt
	amino acid	H	CF ₃	Cl	O-cyclopropyl
	amino acid	H	CF ₃	Cl	O-acetyl
30	amino acid	H	CF ₃	Cl	SH
	amino acid	H	CF ₃	Cl	SMe
	amino acid	H	CF ₃	Cl	SEt
	amino acid	H	CF ₃	Cl	S-cyclopropyl
	amino acid	H	CF ₃	Cl	F
	amino acid	H	CF ₃	Cl	Cl
35	amino acid	H	CF ₃	Cl	Br
	amino acid	H	CF ₃	Cl	I
	amino acid	acyl	CF ₃	Cl	H
	amino acid	acyl	CF ₃	Cl	NH ₂
	amino acid	acyl	CF ₃	Cl	NH-cyclopropyl
	amino acid	acyl	CF ₃	Cl	NH-methyl
40	amino acid	acyl	CF ₃	Cl	NH-ethyl
	amino acid	acyl	CF ₃	Cl	NH-acetyl
	amino acid	acyl	CF ₃	Cl	OH
	amino acid	acyl	CF ₃	Cl	OMe
	amino acid	acyl	CF ₃	Cl	OEt
	amino acid	acyl	CF ₃	Cl	O-cyclopropyl
45	amino acid	acyl	CF ₃	Cl	O-acetyl
	amino acid	acyl	CF ₃	Cl	SH
	amino acid	acyl	CF ₃	Cl	SMe
	amino acid	acyl	CF ₃	Cl	SEt
	amino acid	acyl	CF ₃	Cl	S-cyclopropyl
	amino acid	acyl	CF ₃	Cl	F
50	amino acid	acyl	CF ₃	Cl	Cl
	amino acid	acyl	CF ₃	Cl	Br
	acyl	H	Br	Cl	I
	acyl	H	Br	Cl	H
	acyl	H	Br	Cl	NH ₂
	acyl	H	Br	Cl	NH-cyclopropyl
55	acyl	H	Br	Cl	NH-methyl
	acyl	H	Br	Cl	NH-ethyl
	acyl	H	Br	Cl	NH-acetyl
	acyl	H	Br	Cl	OH
	acyl	H	Br	Cl	OMe
	acyl	H	Br	Cl	OEt
60	acyl	H	Br	Cl	O-cyclopropyl
	acyl	H	Br	Cl	O-acetyl
	acyl	H	Br	Cl	SH
	acyl	H	Br	Cl	SMe
	acyl	H	Br	Cl	SEt
	acyl	H	Br	Cl	S-cyclopropyl
65	acyl	H	Br	Cl	F
	acyl	H	Br	Cl	Cl
	acyl	H	Br	Cl	Br
	acyl	H	Br	Cl	I
	acyl	acyl	Br	Cl	H

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
acyl	acyl	Br	Cl	NH ₂
acyl	acyl	Br	Cl	NH-cyclopropyl
acyl	acyl	Br	Cl	NH-methyl
acyl	acyl	Br	Cl	NH-ethyl
acyl	acyl	Br	Cl	NH-acetyl
acyl	acyl	Br	Cl	OH
acyl	acyl	Br	Cl	OMe
acyl	acyl	Br	Cl	OEt
acyl	acyl	Br	Cl	O-cyclopropyl
acyl	acyl	Br	Cl	O-acetyl
acyl	acyl	Br	Cl	SH
acyl	acyl	Br	Cl	SMe
acyl	acyl	Br	Cl	SEt
acyl	acyl	Br	Cl	S-cyclopropyl
acyl	acyl	Br	Cl	F
acyl	acyl	Br	Cl	Cl
acyl	acyl	Br	Cl	Br
acyl	acyl	Br	Cl	I
acyl	amino acid	Br	Cl	H
acyl	amino acid	Br	Cl	NH ₂
acyl	amino acid	Br	Cl	NH-cyclopropyl
acyl	amino acid	Br	Cl	NH-methyl
acyl	amino acid	Br	Cl	NH-ethyl
acyl	amino acid	Br	Cl	NH-acetyl
acyl	amino acid	Br	Cl	OH
acyl	amino acid	Br	Cl	OMe
acyl	amino acid	Br	Cl	OEt
acyl	amino acid	Br	Cl	O-cyclopropyl
acyl	amino acid	Br	Cl	O-acetyl
acyl	amino acid	Br	Cl	SH
acyl	amino acid	Br	Cl	SMe
acyl	amino acid	Br	Cl	SEt
acyl	amino acid	Br	Cl	S-cyclopropyl
acyl	amino acid	Br	Cl	F
acyl	amino acid	Br	Cl	Cl
acyl	amino acid	Br	Cl	Br
acyl	amino acid	Br	Cl	I
acyl	amino acid	Br	Cl	H
H	acyl	Br	Cl	H
H	acyl	Br	Cl	NH ₂
H	acyl	Br	Cl	NH-cyclopropyl
H	acyl	Br	Cl	NH-methyl
H	acyl	Br	Cl	NH-ethyl
H	acyl	Br	Cl	NH-acetyl
H	acyl	Br	Cl	OH
H	acyl	Br	Cl	OMe
H	acyl	Br	Cl	OEt
H	acyl	Br	Cl	O-cyclopropyl
H	acyl	Br	Cl	O-acetyl
H	acyl	Br	Cl	SH
H	acyl	Br	Cl	SMe
H	acyl	Br	Cl	SEt
H	acyl	Br	Cl	S-cyclopropyl
H	acyl	Br	Cl	F
H	acyl	Br	Cl	Cl
H	acyl	Br	Cl	Br
H	acyl	Br	Cl	I
H	acyl	Br	Cl	H
H	amino acid	Br	Cl	H
H	amino acid	Br	Cl	NH ₂
H	amino acid	Br	Cl	NH-cyclopropyl
H	amino acid	Br	Cl	NH-methyl
H	amino acid	Br	Cl	NH-ethyl
H	amino acid	Br	Cl	NH-acetyl
H	amino acid	Br	Cl	OH
H	amino acid	Br	Cl	OMe
H	amino acid	Br	Cl	OEt
H	amino acid	Br	Cl	O-cyclopropyl
H	amino acid	Br	Cl	O-acetyl
H	amino acid	Br	Cl	SH
H	amino acid	Br	Cl	SMe
H	amino acid	Br	Cl	SEt
H	amino acid	Br	Cl	S-cyclopropyl
H	amino acid	Br	Cl	F
H	amino acid	Br	Cl	Cl
H	amino acid	Br	Cl	Br
H	amino acid	Br	Cl	I
H	amino acid	Br	Cl	H
amino acid	amino acid	Br	Cl	H
amino acid	amino acid	Br	Cl	NH ₂

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y	
5	amino acid	amino acid	Br	Cl	NH-cyclopropyl
	amino acid	amino acid	Br	Cl	NH-methyl
	amino acid	amino acid	Br	Cl	NH-ethyl
	amino acid	amino acid	Br	Cl	NH-acetyl
	amino acid	amino acid	Br	Cl	OH
	amino acid	amino acid	Br	Cl	OMe
10	amino acid	amino acid	Br	Cl	OEt
	amino acid	amino acid	Br	Cl	O-cyclopropyl
	amino acid	amino acid	Br	Cl	O-acetyl
	amino acid	amino acid	Br	Cl	SH
	amino acid	amino acid	Br	Cl	SMe
	amino acid	amino acid	Br	Cl	SEt
15	amino acid	amino acid	Br	Cl	S-cyclopropyl
	amino acid	amino acid	Br	Cl	F
	amino acid	amino acid	Br	Cl	Cl
	amino acid	amino acid	Br	Cl	Br
	amino acid	amino acid	Br	Cl	I
	amino acid	H	Br	Cl	H
20	amino acid	H	Br	Cl	NH ₂
	amino acid	H	Br	Cl	NH-cyclopropyl
	amino acid	H	Br	Cl	NH-methyl
	amino acid	H	Br	Cl	NH-ethyl
	amino acid	H	Br	Cl	NH-acetyl
	amino acid	H	Br	Cl	OH
25	amino acid	H	Br	Cl	OMe
	amino acid	H	Br	Cl	OEt
	amino acid	H	Br	Cl	O-cyclopropyl
	amino acid	H	Br	Cl	O-acetyl
	amino acid	H	Br	Cl	SH
	amino acid	H	Br	Cl	SMe
30	amino acid	H	Br	Cl	SEt
	amino acid	H	Br	Cl	S-cyclopropyl
	amino acid	H	Br	Cl	F
	amino acid	H	Br	Cl	Cl
	amino acid	H	Br	Cl	Br
	amino acid	H	Br	Cl	I
35	amino acid	acyl	Br	Cl	H
	amino acid	acyl	Br	Cl	NH ₂
	amino acid	acyl	Br	Cl	NH-cyclopropyl
	amino acid	acyl	Br	Cl	NH-methyl
	amino acid	acyl	Br	Cl	NH-ethyl
	amino acid	acyl	Br	Cl	NH-acetyl
40	amino acid	acyl	Br	Cl	OH
	amino acid	acyl	Br	Cl	OMe
	amino acid	acyl	Br	Cl	OEt
	amino acid	acyl	Br	Cl	O-cyclopropyl
	amino acid	acyl	Br	Cl	O-acetyl
	amino acid	acyl	Br	Cl	SH
45	amino acid	acyl	Br	Cl	SMe
	amino acid	acyl	Br	Cl	SEt
	amino acid	acyl	Br	Cl	S-cyclopropyl
	amino acid	acyl	Br	Cl	F
	amino acid	acyl	Br	Cl	Cl
	amino acid	acyl	Br	Cl	Br
50	amino acid	acyl	Br	Cl	I
	acyl	H	Cl	Cl	H
	acyl	H	Cl	Cl	NH ₂
	acyl	H	Cl	Cl	NH-cyclopropyl
	acyl	H	Cl	Cl	NH-methyl
	acyl	H	Cl	Cl	NH-ethyl
55	acyl	H	Cl	Cl	NH-acetyl
	acyl	H	Cl	Cl	OH
	acyl	H	Cl	Cl	OMe
	acyl	H	Cl	Cl	OEt
	acyl	H	Cl	Cl	O-cyclopropyl
	acyl	H	Cl	Cl	O-acetyl
60	acyl	H	Cl	Cl	SH
	acyl	H	Cl	Cl	SMe
	acyl	H	Cl	Cl	SEt
	acyl	H	Cl	Cl	S-cyclopropyl
	acyl	H	Cl	Cl	F
	acyl	H	Cl	Cl	Cl
65	acyl	H	Cl	Cl	Br
	acyl	H	Cl	Cl	I
	acyl	acyl	Cl	Cl	H
	acyl	acyl	Cl	Cl	NH ₂
	acyl	acyl	Cl	Cl	NH-cyclopropyl

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
acyl	acyl	Cl	Cl	NH-methyl
acyl	acyl	Cl	Cl	NH-ethyl
acyl	acyl	Cl	Cl	NH-acetyl
acyl	acyl	Cl	Cl	OH
acyl	acyl	Cl	Cl	OMe
acyl	acyl	Cl	Cl	OEt
acyl	acyl	Cl	Cl	O-cyclopropyl
acyl	acyl	Cl	Cl	O-acetyl
acyl	acyl	Cl	Cl	SH
acyl	acyl	Cl	Cl	SMe
acyl	acyl	Cl	Cl	SEt
acyl	acyl	Cl	Cl	S-cyclopropyl
acyl	acyl	Cl	Cl	F
acyl	acyl	Cl	Cl	Br
acyl	acyl	Cl	Cl	I
acyl	acyl	Cl	Cl	H
acyl	amino acid	Cl	Cl	H
acyl	amino acid	Cl	Cl	NH ₂
acyl	amino acid	Cl	Cl	NH-cyclopropyl
acyl	amino acid	Cl	Cl	NH-methyl
acyl	amino acid	Cl	Cl	NH-ethyl
acyl	amino acid	Cl	Cl	NH-acetyl
acyl	amino acid	Cl	Cl	OH
acyl	amino acid	Cl	Cl	OMe
acyl	amino acid	Cl	Cl	OEt
acyl	amino acid	Cl	Cl	O-cyclopropyl
acyl	amino acid	Cl	Cl	O-acetyl
acyl	amino acid	Cl	Cl	SH
acyl	amino acid	Cl	Cl	SMe
acyl	amino acid	Cl	Cl	SEt
acyl	amino acid	Cl	Cl	S-cyclopropyl
acyl	amino acid	Cl	Cl	F
acyl	amino acid	Cl	Cl	Br
acyl	amino acid	Cl	Cl	I
acyl	amino acid	Cl	Cl	H
H	acyl	Cl	Cl	H
H	acyl	Cl	Cl	NH ₂
H	acyl	Cl	Cl	NH-cyclopropyl
H	acyl	Cl	Cl	NH-methyl
H	acyl	Cl	Cl	NH-ethyl
H	acyl	Cl	Cl	NH-acetyl
H	acyl	Cl	Cl	OH
H	acyl	Cl	Cl	OMe
H	acyl	Cl	Cl	OEt
H	acyl	Cl	Cl	O-cyclopropyl
H	acyl	Cl	Cl	O-acetyl
H	acyl	Cl	Cl	SH
H	acyl	Cl	Cl	SMe
H	acyl	Cl	Cl	SEt
H	acyl	Cl	Cl	S-cyclopropyl
H	acyl	Cl	Cl	F
H	acyl	Cl	Cl	Br
H	acyl	Cl	Cl	I
H	acyl	Cl	Cl	H
H	amino acid	Cl	Cl	H
H	amino acid	Cl	Cl	NH ₂
H	amino acid	Cl	Cl	NH-cyclopropyl
H	amino acid	Cl	Cl	NH-methyl
H	amino acid	Cl	Cl	NH-ethyl
H	amino acid	Cl	Cl	NH-acetyl
H	amino acid	Cl	Cl	OH
H	amino acid	Cl	Cl	OMe
H	amino acid	Cl	Cl	OEt
H	amino acid	Cl	Cl	O-cyclopropyl
H	amino acid	Cl	Cl	O-acetyl
H	amino acid	Cl	Cl	SH
H	amino acid	Cl	Cl	SMe
H	amino acid	Cl	Cl	SEt
H	amino acid	Cl	Cl	S-cyclopropyl
H	amino acid	Cl	Cl	F
H	amino acid	Cl	Cl	Br
H	amino acid	Cl	Cl	I
H	amino acid	Cl	Cl	H
amino acid	amino acid	Cl	Cl	NH ₂
amino acid	amino acid	Cl	Cl	NH-cyclopropyl
amino acid	amino acid	Cl	Cl	NH-methyl
amino acid	amino acid	Cl	Cl	NH-ethyl

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y	
5	amino acid	amino acid	Cl	Cl	NH-ethyl
	amino acid	amino acid	Cl	Cl	NH-acetyl
	amino acid	amino acid	Cl	Cl	OH
	amino acid	amino acid	Cl	Cl	OMe
	amino acid	amino acid	Cl	Cl	OEt
	amino acid	amino acid	Cl	Cl	O-cyclopropyl
10	amino acid	amino acid	Cl	Cl	O-acetyl
	amino acid	amino acid	Cl	Cl	SH
	amino acid	amino acid	Cl	Cl	SMe
	amino acid	amino acid	Cl	Cl	SEt
	amino acid	amino acid	Cl	Cl	S-cyclopropyl
	amino acid	amino acid	Cl	Cl	F
15	amino acid	amino acid	Cl	Cl	Cl
	amino acid	amino acid	Cl	Cl	Br
	amino acid	amino acid	Cl	Cl	I
	amino acid	H	Cl	Cl	H
	amino acid	H	Cl	Cl	NH ₂
	amino acid	H	Cl	Cl	NH-cyclopropyl
20	amino acid	H	Cl	Cl	NH-methyl
	amino acid	H	Cl	Cl	NH-ethyl
	amino acid	H	Cl	Cl	NH-acetyl
	amino acid	H	Cl	Cl	OH
	amino acid	H	Cl	Cl	OMe
	amino acid	H	Cl	Cl	OEt
25	amino acid	H	Cl	Cl	O-cyclopropyl
	amino acid	H	Cl	Cl	O-acetyl
	amino acid	H	Cl	Cl	SH
	amino acid	H	Cl	Cl	SMe
	amino acid	H	Cl	Cl	SEt
	amino acid	H	Cl	Cl	S-cyclopropyl
30	amino acid	H	Cl	Cl	F
	amino acid	H	Cl	Cl	Cl
	amino acid	H	Cl	Cl	Br
	amino acid	H	Cl	Cl	I
	amino acid	acyl	Cl	Cl	H
	amino acid	acyl	Cl	Cl	NH ₂
35	amino acid	acyl	Cl	Cl	NH-cyclopropyl
	amino acid	acyl	Cl	Cl	NH-methyl
	amino acid	acyl	Cl	Cl	NH-ethyl
	amino acid	acyl	Cl	Cl	NH-acetyl
	amino acid	acyl	Cl	Cl	OH
	amino acid	acyl	Cl	Cl	OMe
40	amino acid	acyl	Cl	Cl	OEt
	amino acid	acyl	Cl	Cl	O-cyclopropyl
	amino acid	acyl	Cl	Cl	O-acetyl
	amino acid	acyl	Cl	Cl	SH
	amino acid	acyl	Cl	Cl	SMe
	amino acid	acyl	Cl	Cl	SEt
45	amino acid	acyl	Cl	Cl	S-cyclopropyl
	amino acid	acyl	Cl	Cl	F
	amino acid	acyl	Cl	Cl	Cl
	amino acid	acyl	Cl	Cl	Br
	amino acid	acyl	Cl	Cl	I
	acyl	H	F	Cl	H
50	acyl	H	F	Cl	NH ₂
	acyl	H	F	Cl	NH-cyclopropyl
	acyl	H	F	Cl	NH-methyl
	acyl	H	F	Cl	NH-ethyl
	acyl	H	F	Cl	NH-acetyl
	acyl	H	F	Cl	OH
55	acyl	H	F	Cl	OMe
	acyl	H	F	Cl	OEt
	acyl	H	F	Cl	O-cyclopropyl
	acyl	H	F	Cl	O-acetyl
	acyl	H	F	Cl	SH
	acyl	H	F	Cl	SMe
60	acyl	H	F	Cl	SEt
	acyl	H	F	Cl	S-cyclopropyl
	acyl	H	F	Cl	F
	acyl	H	F	Cl	Cl
	acyl	H	F	Cl	Br
	acyl	H	F	Cl	I
65	acyl	acyl	F	Cl	H
	acyl	acyl	F	Cl	NH ₂
	acyl	acyl	F	Cl	NH-cyclopropyl
	acyl	acyl	F	Cl	NH-methyl
	acyl	acyl	F	Cl	NH-ethyl

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
acyl	acyl	F	Cl	NH-acetyl
acyl	acyl	F	Cl	OH
acyl	acyl	F	Cl	OMe
acyl	acyl	F	Cl	OEt
acyl	acyl	F	Cl	O-cyclopropyl
acyl	acyl	F	Cl	O-acetyl
acyl	acyl	F	Cl	SH
acyl	acyl	F	Cl	SMe
acyl	acyl	F	Cl	SEt
acyl	acyl	F	Cl	S-cyclopropyl
acyl	acyl	F	Cl	F
acyl	acyl	F	Cl	Cl
acyl	acyl	F	Cl	Br
acyl	acyl	F	Cl	I
acyl	amino acid	F	Cl	H
acyl	amino acid	F	Cl	NH ₂
acyl	amino acid	F	Cl	NH-cyclopropyl
acyl	amino acid	F	Cl	NH-methyl
acyl	amino acid	F	Cl	NH-ethyl
acyl	amino acid	F	Cl	NH-acetyl
acyl	amino acid	F	Cl	OH
acyl	amino acid	F	Cl	OMe
acyl	amino acid	F	Cl	OEt
acyl	amino acid	F	Cl	O-cyclopropyl
acyl	amino acid	F	Cl	O-acetyl
acyl	amino acid	F	Cl	SH
acyl	amino acid	F	Cl	SMe
acyl	amino acid	F	Cl	SEt
acyl	amino acid	F	Cl	S-cyclopropyl
acyl	amino acid	F	Cl	F
acyl	amino acid	F	Cl	Cl
acyl	amino acid	F	Cl	Br
acyl	amino acid	F	Cl	I
H	acyl	F	Cl	H
H	acyl	F	Cl	NH ₂
H	acyl	F	Cl	NH-cyclopropyl
H	acyl	F	Cl	NH-methyl
H	acyl	F	Cl	NH-ethyl
H	acyl	F	Cl	NH-acetyl
H	acyl	F	Cl	OH
H	acyl	F	Cl	OMe
H	acyl	F	Cl	OEt
H	acyl	F	Cl	O-cyclopropyl
H	acyl	F	Cl	O-acetyl
H	acyl	F	Cl	SH
H	acyl	F	Cl	SMe
H	acyl	F	Cl	SEt
H	acyl	F	Cl	S-cyclopropyl
H	acyl	F	Cl	F
H	acyl	F	Cl	Cl
H	acyl	F	Cl	Br
H	acyl	F	Cl	I
H	amino acid	F	Cl	H
H	amino acid	F	Cl	NH ₂
H	amino acid	F	Cl	NH-cyclopropyl
H	amino acid	F	Cl	NH-methyl
H	amino acid	F	Cl	NH-ethyl
H	amino acid	F	Cl	NH-acetyl
H	amino acid	F	Cl	OH
H	amino acid	F	Cl	OMe
H	amino acid	F	Cl	OEt
H	amino acid	F	Cl	O-cyclopropyl
H	amino acid	F	Cl	O-acetyl
H	amino acid	F	Cl	SH
H	amino acid	F	Cl	SMe
H	amino acid	F	Cl	SEt
H	amino acid	F	Cl	S-cyclopropyl
H	amino acid	F	Cl	F
H	amino acid	F	Cl	Cl
H	amino acid	F	Cl	Br
H	amino acid	F	Cl	I
amino acid	amino acid	F	Cl	H
amino acid	amino acid	F	Cl	NH ₂
amino acid	amino acid	F	Cl	NH-cyclopropyl
amino acid	amino acid	F	Cl	NH-methyl
amino acid	amino acid	F	Cl	NH-ethyl
amino acid	amino acid	F	Cl	NH-acetyl
amino acid	amino acid	F	Cl	OH

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y	
5	amino acid	amino acid	F	Cl	OH
	amino acid	amino acid	F	Cl	OMe
	amino acid	amino acid	F	Cl	OEt
	amino acid	amino acid	F	Cl	O-cyclopropyl
	amino acid	amino acid	F	Cl	O-acetyl
	amino acid	amino acid	F	Cl	SH
10	amino acid	amino acid	F	Cl	SMe
	amino acid	amino acid	F	Cl	SEt
	amino acid	amino acid	F	Cl	S-cyclopropyl
	amino acid	amino acid	F	Cl	F
	amino acid	amino acid	F	Cl	Cl
	amino acid	amino acid	F	Cl	Br
15	amino acid	amino acid	F	Cl	I
	amino acid	H	F	Cl	H
	amino acid	H	F	Cl	NH ₂
	amino acid	H	F	Cl	NH-cyclopropyl
	amino acid	H	F	Cl	NH-methyl
	amino acid	H	F	Cl	NH-ethyl
20	amino acid	H	F	Cl	NH-acetyl
	amino acid	H	F	Cl	OH
	amino acid	H	F	Cl	OMe
	amino acid	H	F	Cl	OEt
	amino acid	H	F	Cl	O-cyclopropyl
	amino acid	H	F	Cl	O-acetyl
25	amino acid	H	F	Cl	SH
	amino acid	H	F	Cl	SMe
	amino acid	H	F	Cl	SEt
	amino acid	H	F	Cl	S-cyclopropyl
	amino acid	H	F	Cl	F
	amino acid	H	F	Cl	Cl
30	amino acid	H	F	Cl	Br
	amino acid	H	F	Cl	I
	amino acid	acyl	F	Cl	H
	amino acid	acyl	F	Cl	NH ₂
	amino acid	acyl	F	Cl	NH-cyclopropyl
	amino acid	acyl	F	Cl	NH-methyl
35	amino acid	acyl	F	Cl	NH-ethyl
	amino acid	acyl	F	Cl	NH-acetyl
	amino acid	acyl	F	Cl	OH
	amino acid	acyl	F	Cl	OMe
	amino acid	acyl	F	Cl	OEt
	amino acid	acyl	F	Cl	O-cyclopropyl
40	amino acid	acyl	F	Cl	O-acetyl
	amino acid	acyl	F	Cl	SH
	amino acid	acyl	F	Cl	SMe
	amino acid	acyl	F	Cl	SEt
	amino acid	acyl	F	Cl	S-cyclopropyl
	amino acid	acyl	F	Cl	F
45	amino acid	acyl	F	Cl	Cl
	amino acid	acyl	F	Cl	Br
	acyl	H	NH ₂	Cl	I
	acyl	H	NH ₂	Cl	H
	acyl	H	NH ₂	Cl	NH ₂
	acyl	H	NH ₂	Cl	NH-cyclopropyl
50	acyl	H	NH ₂	Cl	NH-methyl
	acyl	H	NH ₂	Cl	NH-ethyl
	acyl	H	NH ₂	Cl	NH-acetyl
	acyl	H	NH ₂	Cl	OH
	acyl	H	NH ₂	Cl	OMe
	acyl	H	NH ₂	Cl	OEt
55	acyl	H	NH ₂	Cl	O-cyclopropyl
	acyl	H	NH ₂	Cl	O-acetyl
	acyl	H	NH ₂	Cl	SH
	acyl	H	NH ₂	Cl	SMe
	acyl	H	NH ₂	Cl	SEt
	acyl	H	NH ₂	Cl	S-cyclopropyl
60	acyl	H	NH ₂	Cl	F
	acyl	H	NH ₂	Cl	Cl
	acyl	H	NH ₂	Cl	Br
	acyl	H	NH ₂	Cl	I
	acyl	acyl	NH ₂	Cl	H
	acyl	acyl	NH ₂	Cl	NH ₂
65	acyl	acyl	NH ₂	Cl	NH-cyclopropyl
	acyl	acyl	NH ₂	Cl	NH-methyl
	acyl	acyl	NH ₂	Cl	NH-ethyl
	acyl	acyl	NH ₂	Cl	NH-acetyl
	acyl	acyl	NH ₂	Cl	OH

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
acyl	acyl	NH ₂	Cl	OMe
acyl	acyl	NH ₂	Cl	OEt
acyl	acyl	NH ₂	Cl	O-cyclopropyl
acyl	acyl	NH ₂	Cl	O-acetyl
acyl	acyl	NH ₂	Cl	SH
acyl	acyl	NH ₂	Cl	SMe
acyl	acyl	NH ₂	Cl	SEt
acyl	acyl	NH ₂	Cl	S-cyclopropyl
acyl	acyl	NH ₂	Cl	F
acyl	acyl	NH ₂	Cl	Cl
acyl	acyl	NH ₂	Cl	Br
acyl	acyl	NH ₂	Cl	I
acyl	amino acid	NH ₂	Cl	H
acyl	amino acid	NH ₂	Cl	NH ₂
acyl	amino acid	NH ₂	Cl	NH-cyclopropyl
acyl	amino acid	NH ₂	Cl	NH-methyl
acyl	amino acid	NH ₂	Cl	NH-ethyl
acyl	amino acid	NH ₂	Cl	NH-acetyl
acyl	amino acid	NH ₂	Cl	OH
acyl	amino acid	NH ₂	Cl	OMe
acyl	amino acid	NH ₂	Cl	OEt
acyl	amino acid	NH ₂	Cl	O-cyclopropyl
acyl	amino acid	NH ₂	Cl	O-acetyl
acyl	amino acid	NH ₂	Cl	SH
acyl	amino acid	NH ₂	Cl	SMe
acyl	amino acid	NH ₂	Cl	SEt
acyl	amino acid	NH ₂	Cl	S-cyclopropyl
acyl	amino acid	NH ₂	Cl	F
acyl	amino acid	NH ₂	Cl	Cl
acyl	amino acid	NH ₂	Cl	Br
acyl	amino acid	NH ₂	Cl	I
H	acyl	NH ₂	Cl	H
H	acyl	NH ₂	Cl	NH ₂
H	acyl	NH ₂	Cl	NH-cyclopropyl
H	acyl	NH ₂	Cl	NH-methyl
H	acyl	NH ₂	Cl	NH-ethyl
H	acyl	NH ₂	Cl	NH-acetyl
H	acyl	NH ₂	Cl	OH
H	acyl	NH ₂	Cl	OMe
H	acyl	NH ₂	Cl	OEt
H	acyl	NH ₂	Cl	O-cyclopropyl
H	acyl	NH ₂	Cl	O-acetyl
H	acyl	NH ₂	Cl	SH
H	acyl	NH ₂	Cl	SMe
H	acyl	NH ₂	Cl	SEt
H	acyl	NH ₂	Cl	S-cyclopropyl
H	acyl	NH ₂	Cl	F
H	acyl	NH ₂	Cl	Cl
H	acyl	NH ₂	Cl	Br
H	acyl	NH ₂	Cl	I
H	amino acid	NH ₂	Cl	H
H	amino acid	NH ₂	Cl	NH ₂
H	amino acid	NH ₂	Cl	NH-cyclopropyl
H	amino acid	NH ₂	Cl	NH-methyl
H	amino acid	NH ₂	Cl	NH-ethyl
H	amino acid	NH ₂	Cl	NH-acetyl
H	amino acid	NH ₂	Cl	OH
H	amino acid	NH ₂	Cl	OMe
H	amino acid	NH ₂	Cl	OEt
H	amino acid	NH ₂	Cl	O-cyclopropyl
H	amino acid	NH ₂	Cl	O-acetyl
H	amino acid	NH ₂	Cl	SH
H	amino acid	NH ₂	Cl	SMe
H	amino acid	NH ₂	Cl	SEt
H	amino acid	NH ₂	Cl	S-cyclopropyl
H	amino acid	NH ₂	Cl	F
H	amino acid	NH ₂	Cl	Cl
H	amino acid	NH ₂	Cl	Br
H	amino acid	NH ₂	Cl	I
amino acid	amino acid	NH ₂	Cl	H
amino acid	amino acid	NH ₂	Cl	NH ₂
amino acid	amino acid	NH ₂	Cl	NH-cyclopropyl
amino acid	amino acid	NH ₂	Cl	NH-methyl
amino acid	amino acid	NH ₂	Cl	NH-ethyl
amino acid	amino acid	NH ₂	Cl	NH-acetyl
amino acid	amino acid	NH ₂	Cl	OH
amino acid	amino acid	NH ₂	Cl	OMe
amino acid	amino acid	NH ₂	Cl	OEt

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y	
5	amino acid	amino acid	NH ₂	Cl	OEt
	amino acid	amino acid	NH ₂	Cl	O-cyclopropyl
	amino acid	amino acid	NH ₂	Cl	O-acetyl
	amino acid	amino acid	NH ₂	Cl	SH
	amino acid	amino acid	NH ₂	Cl	SMe
	amino acid	amino acid	NH ₂	Cl	SEt
10	amino acid	amino acid	NH ₂	Cl	S-cyclopropyl
	amino acid	amino acid	NH ₂	Cl	F
	amino acid	amino acid	NH ₂	Cl	Cl
	amino acid	amino acid	NH ₂	Cl	Br
	amino acid	amino acid	NH ₂	Cl	I
	amino acid	H	NH ₂	Cl	H
15	amino acid	H	NH ₂	Cl	NH ₂
	amino acid	H	NH ₂	Cl	NH-cyclopropyl
	amino acid	H	NH ₂	Cl	NH-methyl
	amino acid	H	NH ₂	Cl	NH-ethyl
	amino acid	H	NH ₂	Cl	NH-acetyl
	amino acid	H	NH ₂	Cl	OH
20	amino acid	H	NH ₂	Cl	OMe
	amino acid	H	NH ₂	Cl	OEt
	amino acid	H	NH ₂	Cl	O-cyclopropyl
	amino acid	H	NH ₂	Cl	O-acetyl
	amino acid	H	NH ₂	Cl	SH
	amino acid	H	NH ₂	Cl	SMe
25	amino acid	H	NH ₂	Cl	SEt
	amino acid	H	NH ₂	Cl	S-cyclopropyl
	amino acid	H	NH ₂	Cl	F
	amino acid	H	NH ₂	Cl	Cl
	amino acid	H	NH ₂	Cl	Br
	amino acid	H	NH ₂	Cl	I
30	amino acid	acyl	NH ₂	Cl	H
	amino acid	acyl	NH ₂	Cl	NH ₂
	amino acid	acyl	NH ₂	Cl	NH-cyclopropyl
	amino acid	acyl	NH ₂	Cl	NH-methyl
	amino acid	acyl	NH ₂	Cl	NH-ethyl
	amino acid	acyl	NH ₂	Cl	NH-acetyl
35	amino acid	acyl	NH ₂	Cl	OH
	amino acid	acyl	NH ₂	Cl	OMe
	amino acid	acyl	NH ₂	Cl	OEt
	amino acid	acyl	NH ₂	Cl	O-cyclopropyl
	amino acid	acyl	NH ₂	Cl	O-acetyl
	amino acid	acyl	NH ₂	Cl	SH
40	amino acid	acyl	NH ₂	Cl	SMe
	amino acid	acyl	NH ₂	Cl	SEt
	amino acid	acyl	NH ₂	Cl	S-cyclopropyl
	amino acid	acyl	NH ₂	Cl	F
	amino acid	acyl	NH ₂	Cl	Cl
	amino acid	acyl	NH ₂	Cl	Br
45	amino acid	acyl	NH ₂	Cl	I
	acyl	H	SH	Cl	H
	acyl	H	SH	Cl	NH ₂
	acyl	H	SH	Cl	NH-cyclopropyl
	acyl	H	SH	Cl	NH-methyl
	acyl	H	SH	Cl	NH-ethyl
50	acyl	H	SH	Cl	NH-acetyl
	acyl	H	SH	Cl	OH
	acyl	H	SH	Cl	OMe
	acyl	H	SH	Cl	OEt
	acyl	H	SH	Cl	O-cyclopropyl
	acyl	H	SH	Cl	O-acetyl
55	acyl	H	SH	Cl	SH
	acyl	H	SH	Cl	SMe
	acyl	H	SH	Cl	SEt
	acyl	H	SH	Cl	S-cyclopropyl
	acyl	H	SH	Cl	F
	acyl	H	SH	Cl	Cl
60	acyl	H	SH	Cl	Br
	acyl	H	SH	Cl	I
	acyl	acyl	SH	Cl	H
	acyl	acyl	SH	Cl	NH ₂
	acyl	acyl	SH	Cl	NH-cyclopropyl
	acyl	acyl	SH	Cl	NH-methyl
65	acyl	acyl	SH	Cl	NH-ethyl
	acyl	acyl	SH	Cl	NH-acetyl
	acyl	acyl	SH	Cl	OH
	acyl	acyl	SH	Cl	OMe
	acyl	acyl	SH	Cl	OEt

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
acyl	acyl	SH	Cl	O-cyclopropyl
acyl	acyl	SH	Cl	O-acetyl
acyl	acyl	SH	Cl	SH
acyl	acyl	SH	Cl	SMe
acyl	acyl	SH	Cl	SEt
acyl	acyl	SH	Cl	S-cyclopropyl
acyl	acyl	SH	Cl	F
acyl	acyl	SH	Cl	Cl
acyl	acyl	SH	Cl	Br
acyl	acyl	SH	Cl	I
acyl	amino acid	SH	Cl	H
acyl	amino acid	SH	Cl	NH ₂
acyl	amino acid	SH	Cl	NH-cyclopropyl
acyl	amino acid	SH	Cl	NH-methyl
acyl	amino acid	SH	Cl	NH-ethyl
acyl	amino acid	SH	Cl	NH-acetyl
acyl	amino acid	SH	Cl	OH
acyl	amino acid	SH	Cl	OMe
acyl	amino acid	SH	Cl	OEt
acyl	amino acid	SH	Cl	O-cyclopropyl
acyl	amino acid	SH	Cl	O-acetyl
acyl	amino acid	SH	Cl	SH
acyl	amino acid	SH	Cl	SMe
acyl	amino acid	SH	Cl	SEt
acyl	amino acid	SH	Cl	S-cyclopropyl
acyl	amino acid	SH	Cl	F
acyl	amino acid	SH	Cl	Cl
acyl	amino acid	SH	Cl	Br
acyl	amino acid	SH	Cl	I
H	acyl	SH	Cl	H
H	acyl	SH	Cl	NH ₂
H	acyl	SH	Cl	NH-cyclopropyl
H	acyl	SH	Cl	NH-methyl
H	acyl	SH	Cl	NH-ethyl
H	acyl	SH	Cl	NH-acetyl
H	acyl	SH	Cl	OH
H	acyl	SH	Cl	OMe
H	acyl	SH	Cl	OEt
H	acyl	SH	Cl	O-cyclopropyl
H	acyl	SH	Cl	O-acetyl
H	acyl	SH	Cl	SH
H	acyl	SH	Cl	SMe
H	acyl	SH	Cl	SEt
H	acyl	SH	Cl	S-cyclopropyl
H	acyl	SH	Cl	F
H	acyl	SH	Cl	Cl
H	acyl	SH	Cl	Br
H	acyl	SH	Cl	I
H	amino acid	SH	Cl	H
H	amino acid	SH	Cl	NH ₂
H	amino acid	SH	Cl	NH-cyclopropyl
H	amino acid	SH	Cl	NH-methyl
H	amino acid	SH	Cl	NH-ethyl
H	amino acid	SH	Cl	NH-acetyl
H	amino acid	SH	Cl	OH
H	amino acid	SH	Cl	OMe
H	amino acid	SH	Cl	OEt
H	amino acid	SH	Cl	O-cyclopropyl
H	amino acid	SH	Cl	O-acetyl
H	amino acid	SH	Cl	SH
H	amino acid	SH	Cl	SMe
H	amino acid	SH	Cl	SEt
H	amino acid	SH	Cl	S-cyclopropyl
H	amino acid	SH	Cl	F
H	amino acid	SH	Cl	Cl
H	amino acid	SH	Cl	Br
H	amino acid	SH	Cl	I
amino acid	amino acid	SH	Cl	H
amino acid	amino acid	SH	Cl	NH ₂
amino acid	amino acid	SH	Cl	NH-cyclopropyl
amino acid	amino acid	SH	Cl	NH-methyl
amino acid	amino acid	SH	Cl	NH-ethyl
amino acid	amino acid	SH	Cl	NH-acetyl
amino acid	amino acid	SH	Cl	OH
amino acid	amino acid	SH	Cl	OMe
amino acid	amino acid	SH	Cl	OEt
amino acid	amino acid	SH	Cl	O-cyclopropyl
amino acid	amino acid	SH	Cl	O-acetyl

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y	
5	amino acid	amino acid	SH	Cl	O-acetyl
	amino acid	amino acid	SH	Cl	SH
	amino acid	amino acid	SH	Cl	SMe
	amino acid	amino acid	SH	Cl	SEt
	amino acid	amino acid	SH	Cl	S-cyclopropyl
	amino acid	amino acid	SH	Cl	F
10	amino acid	amino acid	SH	Cl	Cl
	amino acid	amino acid	SH	Cl	Br
	amino acid	amino acid	SH	Cl	I
	amino acid	H	SH	Cl	H
	amino acid	H	SH	Cl	NH ₂
	amino acid	H	SH	Cl	NH-cyclopropyl
15	amino acid	H	SH	Cl	NH-methyl
	amino acid	H	SH	Cl	NH-ethyl
	amino acid	H	SH	Cl	NH-acetyl
	amino acid	H	SH	Cl	OH
	amino acid	H	SH	Cl	OMe
	amino acid	H	SH	Cl	OEt
20	amino acid	H	SH	Cl	O-cyclopropyl
	amino acid	H	SH	Cl	O-acetyl
	amino acid	H	SH	Cl	SH
	amino acid	H	SH	Cl	SMe
	amino acid	H	SH	Cl	SEt
	amino acid	H	SH	Cl	S-cyclopropyl
25	amino acid	H	SH	Cl	F
	amino acid	H	SH	Cl	Cl
	amino acid	H	SH	Cl	Br
	amino acid	H	SH	Cl	I
	amino acid	acyl	SH	Cl	H
	amino acid	acyl	SH	Cl	NH ₂
30	amino acid	acyl	SH	Cl	NH-cyclopropyl
	amino acid	acyl	SH	Cl	NH-methyl
	amino acid	acyl	SH	Cl	NH-ethyl
	amino acid	acyl	SH	Cl	NH-acetyl
	amino acid	acyl	SH	Cl	OH
	amino acid	acyl	SH	Cl	OMe
35	amino acid	acyl	SH	Cl	OEt
	amino acid	acyl	SH	Cl	O-cyclopropyl
	amino acid	acyl	SH	Cl	O-acetyl
	amino acid	acyl	SH	Cl	SH
	amino acid	acyl	SH	Cl	SMe
	amino acid	acyl	SH	Cl	SEt
40	amino acid	acyl	SH	Cl	S-cyclopropyl
	amino acid	acyl	SH	Cl	F
	amino acid	acyl	SH	Cl	Cl
	amino acid	acyl	SH	Cl	Br
	amino acid	acyl	SH	Cl	I
	acyl	H	OH	Cl	H
45	acyl	H	OH	Cl	NH ₂
	acyl	H	OH	Cl	NH-cyclopropyl
	acyl	H	OH	Cl	NH-methyl
	acyl	H	OH	Cl	NH-ethyl
	acyl	H	OH	Cl	NH-acetyl
	acyl	H	OH	Cl	OH
50	acyl	H	OH	Cl	OMe
	acyl	H	OH	Cl	OEt
	acyl	H	OH	Cl	O-cyclopropyl
	acyl	H	OH	Cl	O-acetyl
	acyl	H	OH	Cl	SH
	acyl	H	OH	Cl	SMe
55	acyl	H	OH	Cl	SEt
	acyl	H	OH	Cl	S-cyclopropyl
	acyl	H	OH	Cl	F
	acyl	H	OH	Cl	Cl
	acyl	H	OH	Cl	Br
	acyl	H	OH	Cl	I
60	acyl	acyl	OH	Cl	H
	acyl	acyl	OH	Cl	NH ₂
	acyl	acyl	OH	Cl	NH-cyclopropyl
	acyl	acyl	OH	Cl	NH-methyl
	acyl	acyl	OH	Cl	NH-ethyl
	acyl	acyl	OH	Cl	NH-acetyl
65	acyl	acyl	OH	Cl	OH
	acyl	acyl	OH	Cl	OMe
	acyl	acyl	OH	Cl	OEt
	acyl	acyl	OH	Cl	O-cyclopropyl
	acyl	acyl	OH	Cl	O-acetyl

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
acyl	acyl	OH	Cl	SH
acyl	acyl	OH	Cl	SMe
acyl	acyl	OH	Cl	SEt
acyl	acyl	OH	Cl	S-cyclopropyl
acyl	acyl	OH	Cl	F
acyl	acyl	OH	Cl	Cl
acyl	acyl	OH	Cl	Br
acyl	acyl	OH	Cl	I
acyl	amino acid	OH	Cl	H
acyl	amino acid	OH	Cl	NH ₂
acyl	amino acid	OH	Cl	NH-cyclopropyl
acyl	amino acid	OH	Cl	NH-methyl
acyl	amino acid	OH	Cl	NH-ethyl
acyl	amino acid	OH	Cl	NH-acetyl
acyl	amino acid	OH	Cl	OH
acyl	amino acid	OH	Cl	OMe
acyl	amino acid	OH	Cl	OEt
acyl	amino acid	OH	Cl	O-cyclopropyl
acyl	amino acid	OH	Cl	O-acetyl
acyl	amino acid	OH	Cl	SH
acyl	amino acid	OH	Cl	SMe
acyl	amino acid	OH	Cl	SEt
acyl	amino acid	OH	Cl	S-cyclopropyl
acyl	amino acid	OH	Cl	F
acyl	amino acid	OH	Cl	Cl
acyl	amino acid	OH	Cl	Br
acyl	amino acid	OH	Cl	I
H	acyl	OH	Cl	H
H	acyl	OH	Cl	NH ₂
H	acyl	OH	Cl	NH-cyclopropyl
H	acyl	OH	Cl	NH-methyl
H	acyl	OH	Cl	NH-ethyl
H	acyl	OH	Cl	NH-acetyl
H	acyl	OH	Cl	OH
H	acyl	OH	Cl	OMe
H	acyl	OH	Cl	OEt
H	acyl	OH	Cl	O-cyclopropyl
H	acyl	OH	Cl	O-acetyl
H	acyl	OH	Cl	SH
H	acyl	OH	Cl	SMe
H	acyl	OH	Cl	SEt
H	acyl	OH	Cl	S-cyclopropyl
H	acyl	OH	Cl	F
H	acyl	OH	Cl	Cl
H	acyl	OH	Cl	Br
H	acyl	OH	Cl	I
H	amino acid	OH	Cl	H
H	amino acid	OH	Cl	NH ₂
H	amino acid	OH	Cl	NH-cyclopropyl
H	amino acid	OH	Cl	NH-methyl
H	amino acid	OH	Cl	NH-ethyl
H	amino acid	OH	Cl	NH-acetyl
H	amino acid	OH	Cl	OH
H	amino acid	OH	Cl	OMe
H	amino acid	OH	Cl	OEt
H	amino acid	OH	Cl	O-cyclopropyl
H	amino acid	OH	Cl	O-acetyl
H	amino acid	OH	Cl	SH
H	amino acid	OH	Cl	SMe
H	amino acid	OH	Cl	SEt
H	amino acid	OH	Cl	S-cyclopropyl
H	amino acid	OH	Cl	F
H	amino acid	OH	Cl	Cl
H	amino acid	OH	Cl	Br
H	amino acid	OH	Cl	I
amino acid	amino acid	OH	Cl	H
amino acid	amino acid	OH	Cl	NH ₂
amino acid	amino acid	OH	Cl	NH-cyclopropyl
amino acid	amino acid	OH	Cl	NH-methyl
amino acid	amino acid	OH	Cl	NH-ethyl
amino acid	amino acid	OH	Cl	NH-acetyl
amino acid	amino acid	OH	Cl	OH
amino acid	amino acid	OH	Cl	OMe
amino acid	amino acid	OH	Cl	OEt
amino acid	amino acid	OH	Cl	O-cyclopropyl
amino acid	amino acid	OH	Cl	O-acetyl
amino acid	amino acid	OH	Cl	SH
amino acid	amino acid	OH	Cl	SMe

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y	
5	amino acid	amino acid	OH	Cl	SMe
	amino acid	amino acid	OH	Cl	SEt
	amino acid	amino acid	OH	Cl	S-cyclopropyl
	amino acid	amino acid	OH	Cl	F
	amino acid	amino acid	OH	Cl	Cl
	amino acid	amino acid	OH	Cl	Br
10	amino acid	amino acid	OH	Cl	I
	amino acid	H	OH	Cl	H
	amino acid	H	OH	Cl	NH ₂
	amino acid	H	OH	Cl	NH-cyclopropyl
	amino acid	H	OH	Cl	NH-methyl
	amino acid	H	OH	Cl	NH-ethyl
15	amino acid	H	OH	Cl	NH-acetyl
	amino acid	H	OH	Cl	OH
	amino acid	H	OH	Cl	OMe
	amino acid	H	OH	Cl	OEt
	amino acid	H	OH	Cl	O-cyclopropyl
	amino acid	H	OH	Cl	O-acetyl
20	amino acid	H	OH	Cl	SH
	amino acid	H	OH	Cl	SMe
	amino acid	H	OH	Cl	SEt
	amino acid	H	OH	Cl	S-cyclopropyl
	amino acid	H	OH	Cl	F
	amino acid	H	OH	Cl	Cl
25	amino acid	H	OH	Cl	Br
	amino acid	H	OH	Cl	I
	amino acid	acyl	OH	Cl	H
	amino acid	acyl	OH	Cl	NH ₂
	amino acid	acyl	OH	Cl	NH-cyclopropyl
	amino acid	acyl	OH	Cl	NH-methyl
30	amino acid	acyl	OH	Cl	NH-ethyl
	amino acid	acyl	OH	Cl	NH-acetyl
	amino acid	acyl	OH	Cl	OH
	amino acid	acyl	OH	Cl	OMe
	amino acid	acyl	OH	Cl	OEt
	amino acid	acyl	OH	Cl	O-cyclopropyl
35	amino acid	acyl	OH	Cl	O-acetyl
	amino acid	acyl	OH	Cl	SH
	amino acid	acyl	OH	Cl	SMe
	amino acid	acyl	OH	Cl	SEt
	amino acid	acyl	OH	Cl	S-cyclopropyl
	amino acid	acyl	OH	Cl	F
40	amino acid	acyl	OH	Cl	Cl
	amino acid	acyl	OH	Cl	Br
	amino acid	acyl	OH	Cl	I
	acyl	H	CH ₃	F	H
	acyl	H	CH ₃	F	NH ₂
	acyl	H	CH ₃	F	NH-cyclopropyl
45	acyl	H	CH ₃	F	NH-methyl
	acyl	H	CH ₃	F	NH-ethyl
	acyl	H	CH ₃	F	NH-acetyl
	acyl	H	CH ₃	F	OH
	acyl	H	CH ₃	F	OMe
	acyl	H	CH ₃	F	OEt
50	acyl	H	CH ₃	F	O-cyclopropyl
	acyl	H	CH ₃	F	O-acetyl
	acyl	H	CH ₃	F	SH
	acyl	H	CH ₃	F	SMe
	acyl	H	CH ₃	F	SEt
	acyl	H	CH ₃	F	S-cyclopropyl
55	acyl	H	CH ₃	F	F
	acyl	H	CH ₃	F	Cl
	acyl	H	CH ₃	F	Br
	acyl	H	CH ₃	F	I
	acyl	acyl	CH ₃	F	H
	acyl	acyl	CH ₃	F	NH ₂
60	acyl	acyl	CH ₃	F	NH-cyclopropyl
	acyl	acyl	CH ₃	F	NH-methyl
	acyl	acyl	CH ₃	F	NH-ethyl
	acyl	acyl	CH ₃	F	NH-acetyl
	acyl	acyl	CH ₃	F	OH
	acyl	acyl	CH ₃	F	OMe
65	acyl	acyl	CH ₃	F	OEt
	acyl	acyl	CH ₃	F	O-cyclopropyl
	acyl	acyl	CH ₃	F	O-acetyl
	acyl	acyl	CH ₃	F	SH
	acyl	acyl	CH ₃	F	SMe

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
acyl	acyl	CH ₃	F	SEt
acyl	acyl	CH ₃	F	S-cyclopropyl
acyl	acyl	CH ₃	F	F
acyl	acyl	CH ₃	F	Cl
acyl	acyl	CH ₃	F	Br
acyl	acyl	CH ₃	F	I
acyl	amino acid	CH ₃	F	H
acyl	amino acid	CH ₃	F	NH ₂
acyl	amino acid	CH ₃	F	NH-cyclopropyl
acyl	amino acid	CH ₃	F	NH-methyl
acyl	amino acid	CH ₃	F	NH-ethyl
acyl	amino acid	CH ₃	F	NH-acetyl
acyl	amino acid	CH ₃	F	OH
acyl	amino acid	CH ₃	F	OMe
acyl	amino acid	CH ₃	F	OEt
acyl	amino acid	CH ₃	F	O-cyclopropyl
acyl	amino acid	CH ₃	F	O-acetyl
acyl	amino acid	CH ₃	F	SH
acyl	amino acid	CH ₃	F	SMe
acyl	amino acid	CH ₃	F	SEt
acyl	amino acid	CH ₃	F	S-cyclopropyl
acyl	amino acid	CH ₃	F	F
acyl	amino acid	CH ₃	F	Cl
acyl	amino acid	CH ₃	F	Br
acyl	amino acid	CH ₃	F	I
H	acyl	CH ₃	F	H
H	acyl	CH ₃	F	NH ₂
H	acyl	CH ₃	F	NH-cyclopropyl
H	acyl	CH ₃	F	NH-methyl
H	acyl	CH ₃	F	NH-ethyl
H	acyl	CH ₃	F	NH-acetyl
H	acyl	CH ₃	F	OH
H	acyl	CH ₃	F	OMe
H	acyl	CH ₃	F	OEt
H	acyl	CH ₃	F	O-cyclopropyl
H	acyl	CH ₃	F	O-acetyl
H	acyl	CH ₃	F	SH
H	acyl	CH ₃	F	SMe
H	acyl	CH ₃	F	SEt
H	acyl	CH ₃	F	S-cyclopropyl
H	acyl	CH ₃	F	F
H	acyl	CH ₃	F	Cl
H	acyl	CH ₃	F	Br
H	acyl	CH ₃	F	I
H	amino acid	CH ₃	F	H
H	amino acid	CH ₃	F	NH ₂
H	amino acid	CH ₃	F	NH-cyclopropyl
H	amino acid	CH ₃	F	NH-methyl
H	amino acid	CH ₃	F	NH-ethyl
H	amino acid	CH ₃	F	NH-acetyl
H	amino acid	CH ₃	F	OH
H	amino acid	CH ₃	F	OMe
H	amino acid	CH ₃	F	OEt
H	amino acid	CH ₃	F	O-cyclopropyl
H	amino acid	CH ₃	F	O-acetyl
H	amino acid	CH ₃	F	SH
H	amino acid	CH ₃	F	SMe
H	amino acid	CH ₃	F	SEt
H	amino acid	CH ₃	F	S-cyclopropyl
H	amino acid	CH ₃	F	F
H	amino acid	CH ₃	F	Cl
H	amino acid	CH ₃	F	Br
H	amino acid	CH ₃	F	I
amino acid	amino acid	CH ₃	F	NH ₂
amino acid	amino acid	CH ₃	F	NH-cyclopropyl
amino acid	amino acid	CH ₃	F	NH-methyl
amino acid	amino acid	CH ₃	F	NH-ethyl
amino acid	amino acid	CH ₃	F	NH-acetyl
amino acid	amino acid	CH ₃	F	OH
amino acid	amino acid	CH ₃	F	OMe
amino acid	amino acid	CH ₃	F	OEt
amino acid	amino acid	CH ₃	F	O-cyclopropyl
amino acid	amino acid	CH ₃	F	O-acetyl
amino acid	amino acid	CH ₃	F	SH
amino acid	amino acid	CH ₃	F	SMe
amino acid	amino acid	CH ₃	F	SEt

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y	
5	amino acid	amino acid	CH ₃	F	S-cyclopropyl
	amino acid	amino acid	CH ₃	F	F
	amino acid	amino acid	CH ₃	F	Cl
	amino acid	amino acid	CH ₃	F	Br
	amino acid	amino acid	CH ₃	F	I
10	amino acid	H	CH ₃	F	H
	amino acid	H	CH ₃	F	NH ₂
	amino acid	H	CH ₃	F	NH-cyclopropyl
	amino acid	H	CH ₃	F	NH-methyl
	amino acid	H	CH ₃	F	NH-ethyl
15	amino acid	H	CH ₃	F	NH-acetyl
	amino acid	H	CH ₃	F	OH
	amino acid	H	CH ₃	F	OMe
	amino acid	H	CH ₃	F	OEt
	amino acid	H	CH ₃	F	O-cyclopropyl
20	amino acid	H	CH ₃	F	O-acetyl
	amino acid	H	CH ₃	F	SH
	amino acid	H	CH ₃	F	SMe
	amino acid	H	CH ₃	F	SEt
	amino acid	H	CH ₃	F	S-cyclopropyl
25	amino acid	H	CH ₃	F	F
	amino acid	H	CH ₃	F	Cl
	amino acid	H	CH ₃	F	Br
	amino acid	H	CH ₃	F	I
	amino acid	acyl	CH ₃	F	H
30	amino acid	acyl	CH ₃	F	NH ₂
	amino acid	acyl	CH ₃	F	NH-cyclopropyl
	amino acid	acyl	CH ₃	F	NH-methyl
	amino acid	acyl	CH ₃	F	NH-ethyl
	amino acid	acyl	CH ₃	F	NH-acetyl
35	amino acid	acyl	CH ₃	F	OH
	amino acid	acyl	CH ₃	F	OMe
	amino acid	acyl	CH ₃	F	OEt
	amino acid	acyl	CH ₃	F	O-cyclopropyl
	amino acid	acyl	CH ₃	F	O-acetyl
40	amino acid	acyl	CH ₃	F	SH
	amino acid	acyl	CH ₃	F	SMe
	amino acid	acyl	CH ₃	F	SEt
	amino acid	acyl	CH ₃	F	S-cyclopropyl
	amino acid	acyl	CH ₃	F	F
45	amino acid	acyl	CH ₃	F	Cl
	amino acid	acyl	CH ₃	F	Br
	amino acid	acyl	CH ₃	F	I
	acyl	H	CF ₃	F	H
	acyl	H	CF ₃	F	NH ₂
50	acyl	H	CF ₃	F	NH-cyclopropyl
	acyl	H	CF ₃	F	NH-methyl
	acyl	H	CF ₃	F	NH-ethyl
	acyl	H	CF ₃	F	NH-acetyl
	acyl	H	CF ₃	F	OH
55	acyl	H	CF ₃	F	OMe
	acyl	H	CF ₃	F	OEt
	acyl	H	CF ₃	F	O-cyclopropyl
	acyl	H	CF ₃	F	O-acetyl
	acyl	H	CF ₃	F	SH
60	acyl	H	CF ₃	F	SMe
	acyl	H	CF ₃	F	SEt
	acyl	H	CF ₃	F	S-cyclopropyl
	acyl	H	CF ₃	F	F
	acyl	H	CF ₃	F	Cl
65	acyl	H	CF ₃	F	Br
	acyl	H	CF ₃	F	I
	acyl	acyl	CF ₃	F	H
	acyl	acyl	CF ₃	F	NH ₂
	acyl	acyl	CF ₃	F	NH-cyclopropyl
	acyl	acyl	CF ₃	F	NH-methyl
	acyl	acyl	CF ₃	F	NH-ethyl
	acyl	acyl	CF ₃	F	NH-acetyl
	acyl	acyl	CF ₃	F	OH
	acyl	acyl	CF ₃	F	OMe
	acyl	acyl	CF ₃	F	OEt
	acyl	acyl	CF ₃	F	O-cyclopropyl
	acyl	acyl	CF ₃	F	O-acetyl
	acyl	acyl	CF ₃	F	SH
	acyl	acyl	CF ₃	F	SMe
	acyl	acyl	CF ₃	F	SEt
	acyl	acyl	CF ₃	F	S-cyclopropyl

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
acyl	acyl	CF ₃	F	F
acyl	acyl	CF ₃	F	Cl
acyl	acyl	CF ₃	F	Br
acyl	acyl	CF ₃	F	I
acyl	amino acid	CF ₃	F	H
acyl	amino acid	CF ₃	F	NH ₂
acyl	amino acid	CF ₃	F	NH-cyclopropyl
acyl	amino acid	CF ₃	F	NH-methyl
acyl	amino acid	CF ₃	F	NH-ethyl
acyl	amino acid	CF ₃	F	NH-acetyl
acyl	amino acid	CF ₃	F	OH
acyl	amino acid	CF ₃	F	OMe
acyl	amino acid	CF ₃	F	OEt
acyl	amino acid	CF ₃	F	O-cyclopropyl
acyl	amino acid	CF ₃	F	O-acetyl
acyl	amino acid	CF ₃	F	SH
acyl	amino acid	CF ₃	F	SMe
acyl	amino acid	CF ₃	F	SEt
acyl	amino acid	CF ₃	F	S-cyclopropyl
acyl	amino acid	CF ₃	F	F
acyl	amino acid	CF ₃	F	Cl
acyl	amino acid	CF ₃	F	Br
acyl	amino acid	CF ₃	F	I
H	acyl	CF ₃	F	H
H	acyl	CF ₃	F	NH ₂
H	acyl	CF ₃	F	NH-cyclopropyl
H	acyl	CF ₃	F	NH-methyl
H	acyl	CF ₃	F	NH-ethyl
H	acyl	CF ₃	F	NH-acetyl
H	acyl	CF ₃	F	OH
H	acyl	CF ₃	F	OMe
H	acyl	CF ₃	F	OEt
H	acyl	CF ₃	F	O-cyclopropyl
H	acyl	CF ₃	F	O-acetyl
H	acyl	CF ₃	F	SH
H	acyl	CF ₃	F	SMe
H	acyl	CF ₃	F	SEt
H	acyl	CF ₃	F	S-cyclopropyl
H	acyl	CF ₃	F	F
H	acyl	CF ₃	F	Cl
H	acyl	CF ₃	F	Br
H	acyl	CF ₃	F	I
H	amino acid	CF ₃	F	H
H	amino acid	CF ₃	F	NH ₂
H	amino acid	CF ₃	F	NH-cyclopropyl
H	amino acid	CF ₃	F	NH-methyl
H	amino acid	CF ₃	F	NH-ethyl
H	amino acid	CF ₃	F	NH-acetyl
H	amino acid	CF ₃	F	OH
H	amino acid	CF ₃	F	OMe
H	amino acid	CF ₃	F	OEt
H	amino acid	CF ₃	F	O-cyclopropyl
H	amino acid	CF ₃	F	O-acetyl
H	amino acid	CF ₃	F	SH
H	amino acid	CF ₃	F	SMe
H	amino acid	CF ₃	F	SEt
H	amino acid	CF ₃	F	S-cyclopropyl
H	amino acid	CF ₃	F	F
H	amino acid	CF ₃	F	Cl
H	amino acid	CF ₃	F	Br
H	amino acid	CF ₃	F	I
H	amino acid	CF ₃	F	H
amino acid	amino acid	CF ₃	F	NH ₂
amino acid	amino acid	CF ₃	F	NH-cyclopropyl
amino acid	amino acid	CF ₃	F	NH-methyl
amino acid	amino acid	CF ₃	F	NH-ethyl
amino acid	amino acid	CF ₃	F	NH-acetyl
amino acid	amino acid	CF ₃	F	OH
amino acid	amino acid	CF ₃	F	OMe
amino acid	amino acid	CF ₃	F	OEt
amino acid	amino acid	CF ₃	F	O-cyclopropyl
amino acid	amino acid	CF ₃	F	O-acetyl
amino acid	amino acid	CF ₃	F	SH
amino acid	amino acid	CF ₃	F	SMe
amino acid	amino acid	CF ₃	F	SEt
amino acid	amino acid	CF ₃	F	S-cyclopropyl
amino acid	amino acid	CF ₃	F	F

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y	
5	amino acid	CF ₃	F	Cl	
	amino acid	CF ₃	F	Br	
	amino acid	CF ₃	F	I	
	amino acid	H	CF ₃	F	H
	amino acid	H	CF ₃	F	NH ₂
	amino acid	H	CF ₃	F	NH-cyclopropyl
10	amino acid	H	CF ₃	F	NH-methyl
	amino acid	H	CF ₃	F	NH-ethyl
	amino acid	H	CF ₃	F	NH-acetyl
	amino acid	H	CF ₃	F	OH
	amino acid	H	CF ₃	F	OMe
	amino acid	H	CF ₃	F	OEt
15	amino acid	H	CF ₃	F	O-cyclopropyl
	amino acid	H	CF ₃	F	O-acetyl
	amino acid	H	CF ₃	F	SH
	amino acid	H	CF ₃	F	SMe
	amino acid	H	CF ₃	F	SEt
	amino acid	H	CF ₃	F	S-cyclopropyl
20	amino acid	H	CF ₃	F	F
	amino acid	H	CF ₃	F	Cl
	amino acid	H	CF ₃	F	Br
	amino acid	H	CF ₃	F	I
	amino acid	acyl	CF ₃	F	H
	amino acid	acyl	CF ₃	F	NH ₂
25	amino acid	acyl	CF ₃	F	NH-cyclopropyl
	amino acid	acyl	CF ₃	F	NH-methyl
	amino acid	acyl	CF ₃	F	NH-ethyl
	amino acid	acyl	CF ₃	F	NH-acetyl
	amino acid	acyl	CF ₃	F	OH
	amino acid	acyl	CF ₃	F	OMe
30	amino acid	acyl	CF ₃	F	OEt
	amino acid	acyl	CF ₃	F	O-cyclopropyl
	amino acid	acyl	CF ₃	F	O-acetyl
	amino acid	acyl	CF ₃	F	SH
	amino acid	acyl	CF ₃	F	SMe
	amino acid	acyl	CF ₃	F	SEt
35	amino acid	acyl	CF ₃	F	S-cyclopropyl
	amino acid	acyl	CF ₃	F	F
	amino acid	acyl	CF ₃	F	Cl
	amino acid	acyl	CF ₃	F	Br
	amino acid	acyl	CF ₃	F	I
	acyl	H	Br	F	H
40	acyl	H	Br	F	NH ₂
	acyl	H	Br	F	NH-cyclopropyl
	acyl	H	Br	F	NH-methyl
	acyl	H	Br	F	NH-ethyl
	acyl	H	Br	F	NH-acetyl
	acyl	H	Br	F	OH
45	acyl	H	Br	F	OMe
	acyl	H	Br	F	OEt
	acyl	H	Br	F	O-cyclopropyl
	acyl	H	Br	F	O-acetyl
	acyl	H	Br	F	SH
	acyl	H	Br	F	SMe
50	acyl	H	Br	F	SEt
	acyl	H	Br	F	S-cyclopropyl
	acyl	H	Br	F	F
	acyl	H	Br	F	Cl
	acyl	H	Br	F	Br
	acyl	H	Br	F	I
55	acyl	acyl	Br	F	H
	acyl	acyl	Br	F	NH ₂
	acyl	acyl	Br	F	NH-cyclopropyl
	acyl	acyl	Br	F	NH-methyl
	acyl	acyl	Br	F	NH-ethyl
	acyl	acyl	Br	F	NH-acetyl
60	acyl	acyl	Br	F	OH
	acyl	acyl	Br	F	OMe
	acyl	acyl	Br	F	OEt
	acyl	acyl	Br	F	O-cyclopropyl
	acyl	acyl	Br	F	O-acetyl
	acyl	acyl	Br	F	SH
65	acyl	acyl	Br	F	SMe
	acyl	acyl	Br	F	SEt
	acyl	acyl	Br	F	S-cyclopropyl
	acyl	acyl	Br	F	F
	acyl	acyl	Br	F	Cl

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
acyl	acyl	Br	F	Br
acyl	acyl	Br	F	I
acyl	amino acid	Br	F	H
acyl	amino acid	Br	F	NH ₂
acyl	amino acid	Br	F	NH-cyclopropyl
acyl	amino acid	Br	F	NH-methyl
acyl	amino acid	Br	F	NH-ethyl
acyl	amino acid	Br	F	NH-acetyl
acyl	amino acid	Br	F	OH
acyl	amino acid	Br	F	OMe
acyl	amino acid	Br	F	OEt
acyl	amino acid	Br	F	O-cyclopropyl
acyl	amino acid	Br	F	O-acetyl
acyl	amino acid	Br	F	SH
acyl	amino acid	Br	F	SMe
acyl	amino acid	Br	F	SEt
acyl	amino acid	Br	F	S-cyclopropyl
acyl	amino acid	Br	F	F
acyl	amino acid	Br	F	Cl
acyl	amino acid	Br	F	Br
acyl	amino acid	Br	F	I
H	acyl	Br	F	H
H	acyl	Br	F	NH ₂
H	acyl	Br	F	NH-cyclopropyl
H	acyl	Br	F	NH-methyl
H	acyl	Br	F	NH-ethyl
H	acyl	Br	F	NH-acetyl
H	acyl	Br	F	OH
H	acyl	Br	F	OMe
H	acyl	Br	F	OEt
H	acyl	Br	F	O-cyclopropyl
H	acyl	Br	F	O-acetyl
H	acyl	Br	F	SH
H	acyl	Br	F	SMe
H	acyl	Br	F	SEt
H	acyl	Br	F	S-cyclopropyl
H	acyl	Br	F	F
H	acyl	Br	F	Cl
H	acyl	Br	F	Br
H	acyl	Br	F	I
H	acyl	Br	F	H
H	amino acid	Br	F	H
H	amino acid	Br	F	NH ₂
H	amino acid	Br	F	NH-cyclopropyl
H	amino acid	Br	F	NH-methyl
H	amino acid	Br	F	NH-ethyl
H	amino acid	Br	F	NH-acetyl
H	amino acid	Br	F	OH
H	amino acid	Br	F	OMe
H	amino acid	Br	F	OEt
H	amino acid	Br	F	O-cyclopropyl
H	amino acid	Br	F	O-acetyl
H	amino acid	Br	F	SH
H	amino acid	Br	F	SMe
H	amino acid	Br	F	SEt
H	amino acid	Br	F	S-cyclopropyl
H	amino acid	Br	F	F
H	amino acid	Br	F	Cl
H	amino acid	Br	F	Br
H	amino acid	Br	F	I
amino acid	amino acid	Br	F	H
amino acid	amino acid	Br	F	NH ₂
amino acid	amino acid	Br	F	NH-cyclopropyl
amino acid	amino acid	Br	F	NH-methyl
amino acid	amino acid	Br	F	NH-ethyl
amino acid	amino acid	Br	F	NH-acetyl
amino acid	amino acid	Br	F	OH
amino acid	amino acid	Br	F	OMe
amino acid	amino acid	Br	F	OEt
amino acid	amino acid	Br	F	O-cyclopropyl
amino acid	amino acid	Br	F	O-acetyl
amino acid	amino acid	Br	F	SH
amino acid	amino acid	Br	F	SMe
amino acid	amino acid	Br	F	SEt
amino acid	amino acid	Br	F	S-cyclopropyl
amino acid	amino acid	Br	F	F
amino acid	amino acid	Br	F	Cl
amino acid	amino acid	Br	F	Br
amino acid	amino acid	Br	F	I

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y	
5	amino acid	amino acid	Br	F	I
	amino acid	H	Br	F	H
	amino acid	H	Br	F	NH ₂
	amino acid	H	Br	F	NH-cyclopropyl
	amino acid	H	Br	F	NH-methyl
	amino acid	H	Br	F	NH-ethyl
10	amino acid	H	Br	F	NH-acetyl
	amino acid	H	Br	F	OH
	amino acid	H	Br	F	OMe
	amino acid	H	Br	F	OEt
	amino acid	H	Br	F	O-cyclopropyl
	amino acid	H	Br	F	O-acetyl
15	amino acid	H	Br	F	SH
	amino acid	H	Br	F	SMe
	amino acid	H	Br	F	SEt
	amino acid	H	Br	F	S-cyclopropyl
	amino acid	H	Br	F	F
	amino acid	H	Br	F	Cl
20	amino acid	H	Br	F	Br
	amino acid	H	Br	F	I
	amino acid	acyl	Br	F	H
	amino acid	acyl	Br	F	NH ₂
	amino acid	acyl	Br	F	NH-cyclopropyl
	amino acid	acyl	Br	F	NH-methyl
25	amino acid	acyl	Br	F	NH-ethyl
	amino acid	acyl	Br	F	NH-acetyl
	amino acid	acyl	Br	F	OH
	amino acid	acyl	Br	F	OMe
	amino acid	acyl	Br	F	OEt
	amino acid	acyl	Br	F	O-cyclopropyl
30	amino acid	acyl	Br	F	O-acetyl
	amino acid	acyl	Br	F	SH
	amino acid	acyl	Br	F	SMe
	amino acid	acyl	Br	F	SEt
	amino acid	acyl	Br	F	S-cyclopropyl
	amino acid	acyl	Br	F	F
35	amino acid	acyl	Br	F	Cl
	amino acid	acyl	Br	F	Br
	amino acid	acyl	Br	F	I
	acyl	H	Cl	F	H
	acyl	H	Cl	F	NH ₂
	acyl	H	Cl	F	NH-cyclopropyl
40	acyl	H	Cl	F	NH-methyl
	acyl	H	Cl	F	NH-ethyl
	acyl	H	Cl	F	NH-acetyl
	acyl	H	Cl	F	OH
	acyl	H	Cl	F	OMe
	acyl	H	Cl	F	OEt
45	acyl	H	Cl	F	O-cyclopropyl
	acyl	H	Cl	F	O-acetyl
	acyl	H	Cl	F	SH
	acyl	H	Cl	F	SMe
	acyl	H	Cl	F	SEt
	acyl	H	Cl	F	S-cyclopropyl
50	acyl	H	Cl	F	F
	acyl	H	Cl	F	Cl
	acyl	H	Cl	F	Br
	acyl	H	Cl	F	I
	acyl	acyl	Cl	F	H
	acyl	acyl	Cl	F	NH ₂
55	acyl	acyl	Cl	F	NH-cyclopropyl
	acyl	acyl	Cl	F	NH-methyl
	acyl	acyl	Cl	F	NH-ethyl
	acyl	acyl	Cl	F	NH-acetyl
	acyl	acyl	Cl	F	OH
	acyl	acyl	Cl	F	OMe
60	acyl	acyl	Cl	F	OEt
	acyl	acyl	Cl	F	O-cyclopropyl
	acyl	acyl	Cl	F	O-acetyl
	acyl	acyl	Cl	F	SH
	acyl	acyl	Cl	F	SMe
	acyl	acyl	Cl	F	SEt
65	acyl	acyl	Cl	F	S-cyclopropyl
	acyl	acyl	Cl	F	F
	acyl	acyl	Cl	F	Cl
	acyl	acyl	Cl	F	Br
	acyl	acyl	Cl	F	I

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
acyl	amino acid	Cl	F	H
acyl	amino acid	Cl	F	NH ₂
acyl	amino acid	Cl	F	NH-cyclopropyl
acyl	amino acid	Cl	F	NH-methyl
acyl	amino acid	Cl	F	NH-ethyl
acyl	amino acid	Cl	F	NH-acetyl
acyl	amino acid	Cl	F	OH
acyl	amino acid	Cl	F	OMe
acyl	amino acid	Cl	F	OEt
acyl	amino acid	Cl	F	O-cyclopropyl
acyl	amino acid	Cl	F	O-acetyl
acyl	amino acid	Cl	F	SH
acyl	amino acid	Cl	F	SMe
acyl	amino acid	Cl	F	SEt
acyl	amino acid	Cl	F	S-cyclopropyl
acyl	amino acid	Cl	F	F
acyl	amino acid	Cl	F	Cl
acyl	amino acid	Cl	F	Br
acyl	amino acid	Cl	F	I
H	acyl	Cl	F	H
H	acyl	Cl	F	NH ₂
H	acyl	Cl	F	NH-cyclopropyl
H	acyl	Cl	F	NH-methyl
H	acyl	Cl	F	NH-ethyl
H	acyl	Cl	F	NH-acetyl
H	acyl	Cl	F	OH
H	acyl	Cl	F	OMe
H	acyl	Cl	F	OEt
H	acyl	Cl	F	O-cyclopropyl
H	acyl	Cl	F	O-acetyl
H	acyl	Cl	F	SH
H	acyl	Cl	F	SMe
H	acyl	Cl	F	SEt
H	acyl	Cl	F	S-cyclopropyl
H	acyl	Cl	F	F
H	acyl	Cl	F	Cl
H	acyl	Cl	F	Br
H	acyl	Cl	F	I
H	amino acid	Cl	F	H
H	amino acid	Cl	F	NH ₂
H	amino acid	Cl	F	NH-cyclopropyl
H	amino acid	Cl	F	NH-methyl
H	amino acid	Cl	F	NH-ethyl
H	amino acid	Cl	F	NH-acetyl
H	amino acid	Cl	F	OH
H	amino acid	Cl	F	OMe
H	amino acid	Cl	F	OEt
H	amino acid	Cl	F	O-cyclopropyl
H	amino acid	Cl	F	O-acetyl
H	amino acid	Cl	F	SH
H	amino acid	Cl	F	SMe
H	amino acid	Cl	F	SEt
H	amino acid	Cl	F	S-cyclopropyl
H	amino acid	Cl	F	F
H	amino acid	Cl	F	Cl
H	amino acid	Cl	F	Br
H	amino acid	Cl	F	I
amino acid	amino acid	Cl	F	H
amino acid	amino acid	Cl	F	NH ₂
amino acid	amino acid	Cl	F	NH-cyclopropyl
amino acid	amino acid	Cl	F	NH-methyl
amino acid	amino acid	Cl	F	NH-ethyl
amino acid	amino acid	Cl	F	NH-acetyl
amino acid	amino acid	Cl	F	OH
amino acid	amino acid	Cl	F	OMe
amino acid	amino acid	Cl	F	OEt
amino acid	amino acid	Cl	F	O-cyclopropyl
amino acid	amino acid	Cl	F	O-acetyl
amino acid	amino acid	Cl	F	SH
amino acid	amino acid	Cl	F	SMe
amino acid	amino acid	Cl	F	SEt
amino acid	amino acid	Cl	F	S-cyclopropyl
amino acid	amino acid	Cl	F	F
amino acid	amino acid	Cl	F	Cl
amino acid	amino acid	Cl	F	Br
amino acid	amino acid	Cl	F	I
amino acid	H	Cl	F	H

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
5	amino acid	H	Cl	F
	amino acid	H	Cl	F
	amino acid	H	Cl	F
	amino acid	H	Cl	F
	amino acid	H	Cl	F
	amino acid	H	Cl	F
10	amino acid	H	Cl	F
	amino acid	H	Cl	F
	amino acid	H	Cl	F
	amino acid	H	Cl	F
	amino acid	H	Cl	F
	amino acid	H	Cl	F
	amino acid	H	Cl	F
	amino acid	H	Cl	F
15	amino acid	H	Cl	F
	amino acid	H	Cl	F
	amino acid	H	Cl	F
	amino acid	H	Cl	F
	amino acid	H	Cl	F
	amino acid	H	Cl	F
	amino acid	H	Cl	F
	amino acid	H	Cl	F
	amino acid	H	Cl	F
20	amino acid	acyl	Cl	F
	amino acid	acyl	Cl	F
	amino acid	acyl	Cl	F
	amino acid	acyl	Cl	F
	amino acid	acyl	Cl	F
	amino acid	acyl	Cl	F
25	amino acid	acyl	Cl	F
	amino acid	acyl	Cl	F
	amino acid	acyl	Cl	F
	amino acid	acyl	Cl	F
	amino acid	acyl	Cl	F
	amino acid	acyl	Cl	F
	amino acid	acyl	Cl	F
	amino acid	acyl	Cl	F
	amino acid	acyl	Cl	F
	amino acid	acyl	Cl	F
30	amino acid	acyl	Cl	F
	amino acid	acyl	Cl	F
	amino acid	acyl	Cl	F
	amino acid	acyl	Cl	F
	amino acid	acyl	Cl	F
	amino acid	acyl	Cl	F
	amino acid	acyl	Cl	F
	amino acid	acyl	Cl	F
	amino acid	acyl	Cl	F
	amino acid	acyl	Cl	F
35	acyl	H	F	F
	acyl	H	F	F
	acyl	H	F	F
	acyl	H	F	F
	acyl	H	F	F
	acyl	H	F	F
	acyl	H	F	F
	acyl	H	F	F
	acyl	H	F	F
	acyl	H	F	F
40	acyl	H	F	F
	acyl	H	F	F
	acyl	H	F	F
	acyl	H	F	F
	acyl	H	F	F
	acyl	H	F	F
	acyl	H	F	F
	acyl	H	F	F
	acyl	H	F	F
45	H	acyl	F	F
	H	acyl	F	F
	H	acyl	F	F
	H	acyl	F	F
	H	acyl	F	F
	H	acyl	F	F
	H	acyl	F	F
	H	acyl	F	F
	H	acyl	F	F
	H	acyl	F	F
50	H	acyl	F	F
	H	acyl	F	F
	H	acyl	F	F
	H	acyl	F	F
	H	acyl	F	F
	H	acyl	F	F
	H	acyl	F	F
	H	acyl	F	F
	H	acyl	F	F
	H	acyl	F	F
55	H	acyl	F	F
	H	acyl	F	F
	H	acyl	F	F
	H	acyl	F	F
	H	acyl	F	F
	H	acyl	F	F
	H	acyl	F	F
	H	acyl	F	F
	H	acyl	F	F
	H	acyl	F	F
60	H	amino acid	F	F
	H	amino acid	F	F
	H	amino acid	F	F
	H	amino acid	F	F
	H	amino acid	F	F
	H	amino acid	F	F
	H	amino acid	F	F
	H	amino acid	F	F
	H	amino acid	F	F
	H	amino acid	F	F
65	H	amino acid	F	F
	H	amino acid	F	F

TABLE 2-continued

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TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
acyl	amino acid	NH ₂	F	NH-ethyl
acyl	amino acid	NH ₂	F	NH-acetyl
acyl	amino acid	NH ₂	F	OH
acyl	amino acid	NH ₂	F	OMe
acyl	amino acid	NH ₂	F	OEt
acyl	amino acid	NH ₂	F	O-cyclopropyl
acyl	amino acid	NH ₂	F	O-acetyl
acyl	amino acid	NH ₂	F	SH
acyl	amino acid	NH ₂	F	SMe
acyl	amino acid	NH ₂	F	SEt
acyl	amino acid	NH ₂	F	S-cyclopropyl
acyl	amino acid	NH ₂	F	F
acyl	amino acid	NH ₂	F	Cl
acyl	amino acid	NH ₂	F	Br
acyl	amino acid	NH ₂	F	I
H	acyl	NH ₂	F	H
H	acyl	NH ₂	F	NH ₂
H	acyl	NH ₂	F	NH-cyclopropyl
H	acyl	NH ₂	F	NH-methyl
H	acyl	NH ₂	F	NH-ethyl
H	acyl	NH ₂	F	NH-acetyl
H	acyl	NH ₂	F	OH
H	acyl	NH ₂	F	OMe
H	acyl	NH ₂	F	OEt
H	acyl	NH ₂	F	O-cyclopropyl
H	acyl	NH ₂	F	O-acetyl
H	acyl	NH ₂	F	SH
H	acyl	NH ₂	F	SMe
H	acyl	NH ₂	F	SEt
H	acyl	NH ₂	F	S-cyclopropyl
H	acyl	NH ₂	F	F
H	acyl	NH ₂	F	Cl
H	acyl	NH ₂	F	Br
H	acyl	NH ₂	F	I
H	acyl	NH ₂	F	H
H	amino acid	NH ₂	F	H
H	amino acid	NH ₂	F	NH ₂
H	amino acid	NH ₂	F	NH-cyclopropyl
H	amino acid	NH ₂	F	NH-methyl
H	amino acid	NH ₂	F	NH-ethyl
H	amino acid	NH ₂	F	NH-acetyl
H	amino acid	NH ₂	F	OH
H	amino acid	NH ₂	F	OMe
H	amino acid	NH ₂	F	OEt
H	amino acid	NH ₂	F	O-cyclopropyl
H	amino acid	NH ₂	F	O-acetyl
H	amino acid	NH ₂	F	SH
H	amino acid	NH ₂	F	SMe
H	amino acid	NH ₂	F	SEt
H	amino acid	NH ₂	F	S-cyclopropyl
H	amino acid	NH ₂	F	F
H	amino acid	NH ₂	F	Cl
H	amino acid	NH ₂	F	Br
H	amino acid	NH ₂	F	I
H	amino acid	NH ₂	F	H
amino acid	amino acid	NH ₂	F	NH ₂
amino acid	amino acid	NH ₂	F	NH-cyclopropyl
amino acid	amino acid	NH ₂	F	NH-methyl
amino acid	amino acid	NH ₂	F	NH-ethyl
amino acid	amino acid	NH ₂	F	NH-acetyl
amino acid	amino acid	NH ₂	F	OH
amino acid	amino acid	NH ₂	F	OMe
amino acid	amino acid	NH ₂	F	OEt
amino acid	amino acid	NH ₂	F	O-cyclopropyl
amino acid	amino acid	NH ₂	F	O-acetyl
amino acid	amino acid	NH ₂	F	SH
amino acid	amino acid	NH ₂	F	SMe
amino acid	amino acid	NH ₂	F	SEt
amino acid	amino acid	NH ₂	F	S-cyclopropyl
amino acid	amino acid	NH ₂	F	F
amino acid	amino acid	NH ₂	F	Cl
amino acid	amino acid	NH ₂	F	Br
amino acid	amino acid	NH ₂	F	I
amino acid	H	NH ₂	F	H
amino acid	H	NH ₂	F	NH ₂
amino acid	H	NH ₂	F	NH-cyclopropyl
amino acid	H	NH ₂	F	NH-methyl
amino acid	H	NH ₂	F	NH-ethyl
amino acid	H	NH ₂	F	NH-acetyl

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y	
5	amino acid	H	NH ₂	F	NH-acetyl
	amino acid	H	NH ₂	F	OH
	amino acid	H	NH ₂	F	OMe
	amino acid	H	NH ₂	F	OEt
	amino acid	H	NH ₂	F	O-cyclopropyl
	amino acid	H	NH ₂	F	O-acetyl
10	amino acid	H	NH ₂	F	SH
	amino acid	H	NH ₂	F	SMe
	amino acid	H	NH ₂	F	SEt
	amino acid	H	NH ₂	F	S-cyclopropyl
	amino acid	H	NH ₂	F	F
	amino acid	H	NH ₂	F	Cl
15	amino acid	H	NH ₂	F	Br
	amino acid	H	NH ₂	F	I
	amino acid	acyl	NH ₂	F	H
	amino acid	acyl	NH ₂	F	NH ₂
	amino acid	acyl	NH ₂	F	NH-cyclopropyl
	amino acid	acyl	NH ₂	F	NH-methyl
20	amino acid	acyl	NH ₂	F	NH-ethyl
	amino acid	acyl	NH ₂	F	NH-acetyl
	amino acid	acyl	NH ₂	F	OH
	amino acid	acyl	NH ₂	F	OMe
	amino acid	acyl	NH ₂	F	OEt
	amino acid	acyl	NH ₂	F	O-cyclopropyl
25	amino acid	acyl	NH ₂	F	O-acetyl
	amino acid	acyl	NH ₂	F	SH
	amino acid	acyl	NH ₂	F	SMe
	amino acid	acyl	NH ₂	F	SEt
	amino acid	acyl	NH ₂	F	S-cyclopropyl
	amino acid	acyl	NH ₂	F	F
30	amino acid	acyl	NH ₂	F	Cl
	amino acid	acyl	NH ₂	F	Br
	amino acid	acyl	NH ₂	F	I
	acyl	H	SH	F	H
	acyl	H	SH	F	NH ₂
	acyl	H	SH	F	NH-cyclopropyl
35	acyl	H	SH	F	NH-methyl
	acyl	H	SH	F	NH-ethyl
	acyl	H	SH	F	NH-acetyl
	acyl	H	SH	F	OH
	acyl	H	SH	F	OMe
	acyl	H	SH	F	OEt
40	acyl	H	SH	F	O-cyclopropyl
	acyl	H	SH	F	O-acetyl
	acyl	H	SH	F	SH
	acyl	H	SH	F	SMe
	acyl	H	SH	F	SEt
	acyl	H	SH	F	S-cyclopropyl
45	acyl	H	SH	F	F
	acyl	H	SH	F	Cl
	acyl	H	SH	F	Br
	acyl	H	SH	F	I
	acyl	acyl	SH	F	H
	acyl	acyl	SH	F	NH ₂
50	acyl	acyl	SH	F	NH-cyclopropyl
	acyl	acyl	SH	F	NH-methyl
	acyl	acyl	SH	F	NH-ethyl
	acyl	acyl	SH	F	NH-acetyl
	acyl	acyl	SH	F	OH
	acyl	acyl	SH	F	OMe
55	acyl	acyl	SH	F	OEt
	acyl	acyl	SH	F	O-cyclopropyl
	acyl	acyl	SH	F	O-acetyl
	acyl	acyl	SH	F	SH
	acyl	acyl	SH	F	SMe
	acyl	acyl	SH	F	SEt
60	acyl	acyl	SH	F	S-cyclopropyl
	acyl	acyl	SH	F	F
	acyl	acyl	SH	F	Cl
	acyl	acyl	SH	F	Br
	acyl	acyl	SH	F	I
	acyl	amino acid	SH	F	H
65	acyl	amino acid	SH	F	NH ₂
	acyl	amino acid	SH	F	NH-cyclopropyl
	acyl	amino acid	SH	F	NH-methyl
	acyl	amino acid	SH	F	NH-ethyl
	acyl	amino acid	SH	F	NH-acetyl

TABLE 2-continued

	R ²	R ³	X ¹	X ²	Y
5	amino acid	H	SH	F	OMe
	amino acid	H	SH	F	OEt
	amino acid	H	SH	F	O-cyclopropyl
	amino acid	H	SH	F	O-acetyl
	amino acid	H	SH	F	SH
	amino acid	H	SH	F	SMe
10	amino acid	H	SH	F	SEt
	amino acid	H	SH	F	S-cyclopropyl
	amino acid	H	SH	F	F
	amino acid	H	SH	F	Cl
	amino acid	H	SH	F	Br
	amino acid	H	SH	F	I
15	amino acid	acyl	SH	F	H
	amino acid	acyl	SH	F	NH ₂
	amino acid	acyl	SH	F	NH-cyclopropyl
	amino acid	acyl	SH	F	NH-methyl
	amino acid	acyl	SH	F	NH-ethyl
	amino acid	acyl	SH	F	NH-acetyl
20	amino acid	acyl	SH	F	OH
	amino acid	acyl	SH	F	OMe
	amino acid	acyl	SH	F	OEt
	amino acid	acyl	SH	F	O-cyclopropyl
	amino acid	acyl	SH	F	O-acetyl
	amino acid	acyl	SH	F	SH
	amino acid	acyl	SH	F	SMe
25	amino acid	acyl	SH	F	SEt
	amino acid	acyl	SH	F	S-cyclopropyl
	amino acid	acyl	SH	F	F
	amino acid	acyl	SH	F	Cl
	amino acid	acyl	SH	F	Br
	amino acid	acyl	SH	F	I
30	acyl	H	OH	F	H
	acyl	H	OH	F	NH ₂
	acyl	H	OH	F	NH-cyclopropyl
	acyl	H	OH	F	NH-methyl
	acyl	H	OH	F	NH-ethyl
	acyl	H	OH	F	NH-acetyl
35	acyl	H	OH	F	OH
	acyl	H	OH	F	OMe
	acyl	H	OH	F	OEt
	acyl	H	OH	F	O-cyclopropyl
	acyl	H	OH	F	O-acetyl
	acyl	H	OH	F	SH
	acyl	H	OH	F	SMe
40	acyl	H	OH	F	SEt
	acyl	H	OH	F	S-cyclopropyl
	acyl	H	OH	F	F
	acyl	H	OH	F	Cl
	acyl	H	OH	F	Br
	acyl	H	OH	F	I
45	acyl	acyl	OH	F	H
	acyl	acyl	OH	F	NH ₂
	acyl	acyl	OH	F	NH-cyclopropyl
	acyl	acyl	OH	F	NH-methyl
	acyl	acyl	OH	F	NH-ethyl
	acyl	acyl	OH	F	NH-acetyl
50	acyl	acyl	OH	F	OH
	acyl	acyl	OH	F	OMe
	acyl	acyl	OH	F	OEt
	acyl	acyl	OH	F	O-cyclopropyl
	acyl	acyl	OH	F	O-acetyl
	acyl	acyl	OH	F	SH
55	acyl	acyl	OH	F	SMe
	acyl	acyl	OH	F	SEt
	acyl	acyl	OH	F	S-cyclopropyl
	acyl	acyl	OH	F	F
	acyl	acyl	OH	F	Cl
	acyl	acyl	OH	F	Br
	acyl	acyl	OH	F	I
60	acyl	amino acid	OH	F	H
	acyl	amino acid	OH	F	NH ₂
	acyl	amino acid	OH	F	NH-cyclopropyl
	acyl	amino acid	OH	F	NH-methyl
	acyl	amino acid	OH	F	NH-ethyl
	acyl	amino acid	OH	F	NH-acetyl
65	acyl	amino acid	OH	F	OH
	acyl	amino acid	OH	F	OMe

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
acyl	amino acid	OH	F	OEt
acyl	amino acid	OH	F	O-cyclopropyl
acyl	amino acid	OH	F	O-acetyl
acyl	amino acid	OH	F	SH
acyl	amino acid	OH	F	SMe
acyl	amino acid	OH	F	SEt
acyl	amino acid	OH	F	S-cyclopropyl
acyl	amino acid	OH	F	F
acyl	amino acid	OH	F	Cl
acyl	amino acid	OH	F	Br
acyl	amino acid	OH	F	I
H	acyl	OH	F	H
H	acyl	OH	F	NH ₂
H	acyl	OH	F	NH-cyclopropyl
H	acyl	OH	F	NH-methyl
H	acyl	OH	F	NH-ethyl
H	acyl	OH	F	NH-acetyl
H	acyl	OH	F	OMe
H	acyl	OH	F	OEt
H	acyl	OH	F	O-cyclopropyl
H	acyl	OH	F	O-acetyl
H	acyl	OH	F	SH
H	acyl	OH	F	SMe
H	acyl	OH	F	SEt
H	acyl	OH	F	S-cyclopropyl
H	acyl	OH	F	F
H	acyl	OH	F	Cl
H	acyl	OH	F	Br
H	acyl	OH	F	I
H	amino acid	OH	F	H
H	amino acid	OH	F	NH ₂
H	amino acid	OH	F	NH-cyclopropyl
H	amino acid	OH	F	NH-methyl
H	amino acid	OH	F	NH-ethyl
H	amino acid	OH	F	NH-acetyl
H	amino acid	OH	F	OMe
H	amino acid	OH	F	OEt
H	amino acid	OH	F	O-cyclopropyl
H	amino acid	OH	F	O-acetyl
H	amino acid	OH	F	SH
H	amino acid	OH	F	SMe
H	amino acid	OH	F	SEt
H	amino acid	OH	F	S-cyclopropyl
H	amino acid	OH	F	F
H	amino acid	OH	F	Cl
H	amino acid	OH	F	Br
H	amino acid	OH	F	I
amino acid	amino acid	OH	F	H
amino acid	amino acid	OH	F	NH ₂
amino acid	amino acid	OH	F	NH-cyclopropyl
amino acid	amino acid	OH	F	NH-methyl
amino acid	amino acid	OH	F	NH-ethyl
amino acid	amino acid	OH	F	NH-acetyl
amino acid	amino acid	OH	F	OMe
amino acid	amino acid	OH	F	OEt
amino acid	amino acid	OH	F	O-cyclopropyl
amino acid	amino acid	OH	F	O-acetyl
amino acid	amino acid	OH	F	SH
amino acid	amino acid	OH	F	SMe
amino acid	amino acid	OH	F	SEt
amino acid	amino acid	OH	F	S-cyclopropyl
amino acid	amino acid	OH	F	F
amino acid	amino acid	OH	F	Cl
amino acid	amino acid	OH	F	Br
amino acid	amino acid	OH	F	I
amino acid	H	OH	F	H
amino acid	H	OH	F	NH ₂
amino acid	H	OH	F	NH-cyclopropyl
amino acid	H	OH	F	NH-methyl
amino acid	H	OH	F	NH-ethyl
amino acid	H	OH	F	NH-acetyl
amino acid	H	OH	F	OMe
amino acid	H	OH	F	OEt
amino acid	H	OH	F	O-cyclopropyl
amino acid	H	OH	F	O-acetyl

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y	
5	amino acid	H	OH	F	O-cyclopropyl
	amino acid	H	OH	F	O-acetyl
	amino acid	H	OH	F	SH
	amino acid	H	OH	F	SMe
	amino acid	H	OH	F	SEt
	amino acid	H	OH	F	S-cyclopropyl
10	amino acid	H	OH	F	F
	amino acid	H	OH	F	Cl
	amino acid	H	OH	F	Br
	amino acid	H	OH	F	I
	amino acid	acyl	OH	F	H
	amino acid	acyl	OH	F	NH ₂
15	amino acid	acyl	OH	F	NH-cyclopropyl
	amino acid	acyl	OH	F	NH-methyl
	amino acid	acyl	OH	F	NH-ethyl
	amino acid	acyl	OH	F	NH-acetyl
	amino acid	acyl	OH	F	OH
	amino acid	acyl	OH	F	OMe
	amino acid	acyl	OH	F	OEt
20	amino acid	acyl	OH	F	O-cyclopropyl
	amino acid	acyl	OH	F	O-acetyl
	amino acid	acyl	OH	F	SH
	amino acid	acyl	OH	F	SMe
	amino acid	acyl	OH	F	SEt
	amino acid	acyl	OH	F	S-cyclopropyl
25	amino acid	acyl	OH	F	F
	amino acid	acyl	OH	F	Cl
	amino acid	acyl	OH	F	Br
	acyl	H	CH ₃	NH ₂	H
	acyl	H	CH ₃	NH ₂	NH ₂
	acyl	H	CH ₃	NH ₂	NH-cyclopropyl
30	acyl	H	CH ₃	NH ₂	NH-methyl
	acyl	H	CH ₃	NH ₂	NH-ethyl
	acyl	H	CH ₃	NH ₂	NH-acetyl
	acyl	H	CH ₃	NH ₂	OH
	acyl	H	CH ₃	NH ₂	OMe
	acyl	H	CH ₃	NH ₂	OEt
35	acyl	H	CH ₃	NH ₂	O-cyclopropyl
	acyl	H	CH ₃	NH ₂	O-acetyl
	acyl	H	CH ₃	NH ₂	SH
	acyl	H	CH ₃	NH ₂	SMe
	acyl	H	CH ₃	NH ₂	SEt
	acyl	H	CH ₃	NH ₂	S-cyclopropyl
40	acyl	H	CH ₃	NH ₂	F
	acyl	H	CH ₃	NH ₂	Cl
	acyl	H	CH ₃	NH ₂	Br
	acyl	H	CH ₃	NH ₂	I
	acyl	acyl	CH ₃	NH ₂	H
	acyl	acyl	CH ₃	NH ₂	NH ₂
45	acyl	acyl	CH ₃	NH ₂	NH-cyclopropyl
	acyl	acyl	CH ₃	NH ₂	NH-methyl
	acyl	acyl	CH ₃	NH ₂	NH-ethyl
	acyl	acyl	CH ₃	NH ₂	NH-acetyl
	acyl	acyl	CH ₃	NH ₂	OH
	acyl	acyl	CH ₃	NH ₂	OMe
	acyl	acyl	CH ₃	NH ₂	OEt
50	acyl	acyl	CH ₃	NH ₂	O-cyclopropyl
	acyl	acyl	CH ₃	NH ₂	O-acetyl
	acyl	acyl	CH ₃	NH ₂	SH
	acyl	acyl	CH ₃	NH ₂	SMe
	acyl	acyl	CH ₃	NH ₂	SEt
	acyl	acyl	CH ₃	NH ₂	S-cyclopropyl
55	acyl	acyl	CH ₃	NH ₂	F
	acyl	acyl	CH ₃	NH ₂	Cl
	acyl	acyl	CH ₃	NH ₂	Br
	acyl	acyl	CH ₃	NH ₂	I
	acyl	amino acid	CH ₃	NH ₂	H
	acyl	amino acid	CH ₃	NH ₂	NH ₂
60	acyl	amino acid	CH ₃	NH ₂	NH-cyclopropyl
	acyl	amino acid	CH ₃	NH ₂	NH-methyl
	acyl	amino acid	CH ₃	NH ₂	NH-ethyl
	acyl	amino acid	CH ₃	NH ₂	NH-acetyl
	acyl	amino acid	CH ₃	NH ₂	OH
	acyl	amino acid	CH ₃	NH ₂	OMe
	acyl	amino acid	CH ₃	NH ₂	OEt
65	acyl	amino acid	CH ₃	NH ₂	O-cyclopropyl
	acyl	amino acid	CH ₃	NH ₂	O-acetyl

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
acyl	amino acid	CH ₃	NH ₂	SH
acyl	amino acid	CH ₃	NH ₂	SMe
acyl	amino acid	CH ₃	NH ₂	SEt
acyl	amino acid	CH ₃	NH ₂	S-cyclopropyl
acyl	amino acid	CH ₃	NH ₂	F
acyl	amino acid	CH ₃	NH ₂	Cl
acyl	amino acid	CH ₃	NH ₂	Br
acyl	amino acid	CH ₃	NH ₂	I
H	acyl	CH ₃	NH ₂	H
H	acyl	CH ₃	NH ₂	NH ₂
H	acyl	CH ₃	NH ₂	NH-cyclopropyl
H	acyl	CH ₃	NH ₂	NH-methyl
H	acyl	CH ₃	NH ₂	NH-ethyl
H	acyl	CH ₃	NH ₂	NH-acetyl
H	acyl	CH ₃	NH ₂	OH
H	acyl	CH ₃	NH ₂	OMe
H	acyl	CH ₃	NH ₂	OEt
H	acyl	CH ₃	NH ₂	O-cyclopropyl
H	acyl	CH ₃	NH ₂	O-acetyl
H	acyl	CH ₃	NH ₂	SH
H	acyl	CH ₃	NH ₂	SMe
H	acyl	CH ₃	NH ₂	SEt
H	acyl	CH ₃	NH ₂	S-cyclopropyl
H	acyl	CH ₃	NH ₂	F
H	acyl	CH ₃	NH ₂	Cl
H	acyl	CH ₃	NH ₂	Br
H	acyl	CH ₃	NH ₂	I
H	amino acid	CH ₃	NH ₂	H
H	amino acid	CH ₃	NH ₂	NH ₂
H	amino acid	CH ₃	NH ₂	NH-cyclopropyl
H	amino acid	CH ₃	NH ₂	NH-methyl
H	amino acid	CH ₃	NH ₂	NH-ethyl
H	amino acid	CH ₃	NH ₂	NH-acetyl
H	amino acid	CH ₃	NH ₂	OH
H	amino acid	CH ₃	NH ₂	OMe
H	amino acid	CH ₃	NH ₂	OEt
H	amino acid	CH ₃	NH ₂	O-cyclopropyl
H	amino acid	CH ₃	NH ₂	O-acetyl
H	amino acid	CH ₃	NH ₂	SH
H	amino acid	CH ₃	NH ₂	SMe
H	amino acid	CH ₃	NH ₂	SEt
H	amino acid	CH ₃	NH ₂	S-cyclopropyl
H	amino acid	CH ₃	NH ₂	F
H	amino acid	CH ₃	NH ₂	Cl
H	amino acid	CH ₃	NH ₂	Br
H	amino acid	CH ₃	NH ₂	I
amino acid	amino acid	CH ₃	NH ₂	H
amino acid	amino acid	CH ₃	NH ₂	NH ₂
amino acid	amino acid	CH ₃	NH ₂	NH-cyclopropyl
amino acid	amino acid	CH ₃	NH ₂	NH-methyl
amino acid	amino acid	CH ₃	NH ₂	NH-ethyl
amino acid	amino acid	CH ₃	NH ₂	NH-acetyl
amino acid	amino acid	CH ₃	NH ₂	OH
amino acid	amino acid	CH ₃	NH ₂	OMe
amino acid	amino acid	CH ₃	NH ₂	OEt
amino acid	amino acid	CH ₃	NH ₂	O-cyclopropyl
amino acid	amino acid	CH ₃	NH ₂	O-acetyl
amino acid	amino acid	CH ₃	NH ₂	SH
amino acid	amino acid	CH ₃	NH ₂	SMe
amino acid	amino acid	CH ₃	NH ₂	SEt
amino acid	amino acid	CH ₃	NH ₂	S-cyclopropyl
amino acid	amino acid	CH ₃	NH ₂	F
amino acid	amino acid	CH ₃	NH ₂	Cl
amino acid	amino acid	CH ₃	NH ₂	Br
amino acid	amino acid	CH ₃	NH ₂	I
amino acid	H	CH ₃	NH ₂	H
amino acid	H	CH ₃	NH ₂	NH ₂
amino acid	H	CH ₃	NH ₂	NH-cyclopropyl
amino acid	H	CH ₃	NH ₂	NH-methyl
amino acid	H	CH ₃	NH ₂	NH-ethyl
amino acid	H	CH ₃	NH ₂	NH-acetyl
amino acid	H	CH ₃	NH ₂	OH
amino acid	H	CH ₃	NH ₂	OMe
amino acid	H	CH ₃	NH ₂	OEt
amino acid	H	CH ₃	NH ₂	O-cyclopropyl
amino acid	H	CH ₃	NH ₂	O-acetyl
amino acid	H	CH ₃	NH ₂	SH
amino acid	H	CH ₃	NH ₂	SMe

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
5	amino acid	H	CH ₃	NH ₂ SMe
	amino acid	H	CH ₃	NH ₂ SEt
	amino acid	H	CH ₃	NH ₂ S-cyclopropyl
	amino acid	H	CH ₃	NH ₂ F
	amino acid	H	CH ₃	NH ₂ Cl
	amino acid	H	CH ₃	NH ₂ Br
10	amino acid	H	CH ₃	NH ₂ I
	amino acid	acyl	CH ₃	NH ₂ H
	amino acid	acyl	CH ₃	NH ₂ NH ₂
	amino acid	acyl	CH ₃	NH ₂ NH-cyclopropyl
	amino acid	acyl	CH ₃	NH ₂ NH-methyl
	amino acid	acyl	CH ₃	NH ₂ NH-ethyl
15	amino acid	acyl	CH ₃	NH ₂ NH-acetyl
	amino acid	acyl	CH ₃	NH ₂ OH
	amino acid	acyl	CH ₃	NH ₂ OMe
	amino acid	acyl	CH ₃	NH ₂ OEt
	amino acid	acyl	CH ₃	NH ₂ O-cyclopropyl
	amino acid	acyl	CH ₃	NH ₂ O-acetyl
	amino acid	acyl	CH ₃	NH ₂ SH
20	amino acid	acyl	CH ₃	NH ₂ SMe
	amino acid	acyl	CH ₃	NH ₂ SEt
	amino acid	acyl	CH ₃	NH ₂ S-cyclopropyl
	amino acid	acyl	CH ₃	NH ₂ F
	amino acid	acyl	CH ₃	NH ₂ Cl
	amino acid	acyl	CH ₃	NH ₂ Br
25	amino acid	acyl	CH ₃	NH ₂ I
	acyl	H	CF ₃	NH ₂ H
	acyl	H	CF ₃	NH ₂ NH ₂
	acyl	H	CF ₃	NH ₂ NH-cyclopropyl
	acyl	H	CF ₃	NH ₂ NH-methyl
	acyl	H	CF ₃	NH ₂ NH-ethyl
30	acyl	H	CF ₃	NH ₂ NH-acetyl
	acyl	H	CF ₃	NH ₂ OH
	acyl	H	CF ₃	NH ₂ OMe
	acyl	H	CF ₃	NH ₂ OEt
	acyl	H	CF ₃	NH ₂ O-cyclopropyl
	acyl	H	CF ₃	NH ₂ O-acetyl
35	acyl	H	CF ₃	NH ₂ SH
	acyl	H	CF ₃	NH ₂ SMe
	acyl	H	CF ₃	NH ₂ SEt
	acyl	H	CF ₃	NH ₂ S-cyclopropyl
	acyl	H	CF ₃	NH ₂ F
	acyl	H	CF ₃	NH ₂ Cl
	acyl	H	CF ₃	NH ₂ Br
40	acyl	H	CF ₃	NH ₂ I
	acyl	acyl	CF ₃	NH ₂ H
	acyl	acyl	CF ₃	NH ₂ NH ₂
	acyl	acyl	CF ₃	NH ₂ NH-cyclopropyl
	acyl	acyl	CF ₃	NH ₂ NH-methyl
	acyl	acyl	CF ₃	NH ₂ NH-ethyl
45	acyl	acyl	CF ₃	NH ₂ NH-acetyl
	acyl	acyl	CF ₃	NH ₂ OH
	acyl	acyl	CF ₃	NH ₂ OMe
	acyl	acyl	CF ₃	NH ₂ OEt
	acyl	acyl	CF ₃	NH ₂ O-cyclopropyl
	acyl	acyl	CF ₃	NH ₂ O-acetyl
50	acyl	acyl	CF ₃	NH ₂ SH
	acyl	acyl	CF ₃	NH ₂ SMe
	acyl	acyl	CF ₃	NH ₂ SEt
	acyl	acyl	CF ₃	NH ₂ S-cyclopropyl
	acyl	acyl	CF ₃	NH ₂ F
	acyl	acyl	CF ₃	NH ₂ Cl
	acyl	acyl	CF ₃	NH ₂ Br
55	acyl	acyl	CF ₃	NH ₂ I
	acyl	amino acid	CF ₃	NH ₂ H
	acyl	amino acid	CF ₃	NH ₂ NH ₂
	acyl	amino acid	CF ₃	NH ₂ NH-cyclopropyl
	acyl	amino acid	CF ₃	NH ₂ NH-methyl
	acyl	amino acid	CF ₃	NH ₂ NH-ethyl
60	acyl	amino acid	CF ₃	NH ₂ NH-acetyl
	acyl	amino acid	CF ₃	NH ₂ OH
	acyl	amino acid	CF ₃	NH ₂ OMe
	acyl	amino acid	CF ₃	NH ₂ OEt
	acyl	amino acid	CF ₃	NH ₂ O-cyclopropyl
	acyl	amino acid	CF ₃	NH ₂ O-acetyl
65	acyl	amino acid	CF ₃	NH ₂ SH
	acyl	amino acid	CF ₃	NH ₂ SMe

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
acyl	amino acid	CF ₃	NH ₂	SEt
acyl	amino acid	CF ₃	NH ₂	S-cyclopropyl
acyl	amino acid	CF ₃	NH ₂	F
acyl	amino acid	CF ₃	NH ₂	Cl
acyl	amino acid	CF ₃	NH ₂	Br
acyl	amino acid	CF ₃	NH ₂	I
H	acyl	CF ₃	NH ₂	H
H	acyl	CF ₃	NH ₂	NH ₂
H	acyl	CF ₃	NH ₂	NH-cyclopropyl
H	acyl	CF ₃	NH ₂	NH-methyl
H	acyl	CF ₃	NH ₂	NH-ethyl
H	acyl	CF ₃	NH ₂	NH-acetyl
H	acyl	CF ₃	NH ₂	OH
H	acyl	CF ₃	NH ₂	OMe
H	acyl	CF ₃	NH ₂	OEt
H	acyl	CF ₃	NH ₂	O-cyclopropyl
H	acyl	CF ₃	NH ₂	O-acetyl
H	acyl	CF ₃	NH ₂	SH
H	acyl	CF ₃	NH ₂	SMe
H	acyl	CF ₃	NH ₂	SEt
H	acyl	CF ₃	NH ₂	S-cyclopropyl
H	acyl	CF ₃	NH ₂	F
H	acyl	CF ₃	NH ₂	Cl
H	acyl	CF ₃	NH ₂	Br
H	acyl	CF ₃	NH ₂	I
H	acyl	CF ₃	NH ₂	H
H	amino acid	CF ₃	NH ₂	H
H	amino acid	CF ₃	NH ₂	NH ₂
H	amino acid	CF ₃	NH ₂	NH-cyclopropyl
H	amino acid	CF ₃	NH ₂	NH-methyl
H	amino acid	CF ₃	NH ₂	NH-ethyl
H	amino acid	CF ₃	NH ₂	NH-acetyl
H	amino acid	CF ₃	NH ₂	OH
H	amino acid	CF ₃	NH ₂	OMe
H	amino acid	CF ₃	NH ₂	OEt
H	amino acid	CF ₃	NH ₂	O-cyclopropyl
H	amino acid	CF ₃	NH ₂	O-acetyl
H	amino acid	CF ₃	NH ₂	SH
H	amino acid	CF ₃	NH ₂	SMe
H	amino acid	CF ₃	NH ₂	SEt
H	amino acid	CF ₃	NH ₂	S-cyclopropyl
H	amino acid	CF ₃	NH ₂	F
H	amino acid	CF ₃	NH ₂	Cl
H	amino acid	CF ₃	NH ₂	Br
H	amino acid	CF ₃	NH ₂	I
H	amino acid	CF ₃	NH ₂	H
amino acid	amino acid	CF ₃	NH ₂	H
amino acid	amino acid	CF ₃	NH ₂	NH ₂
amino acid	amino acid	CF ₃	NH ₂	NH-cyclopropyl
amino acid	amino acid	CF ₃	NH ₂	NH-methyl
amino acid	amino acid	CF ₃	NH ₂	NH-ethyl
amino acid	amino acid	CF ₃	NH ₂	NH-acetyl
amino acid	amino acid	CF ₃	NH ₂	OH
amino acid	amino acid	CF ₃	NH ₂	OMe
amino acid	amino acid	CF ₃	NH ₂	OEt
amino acid	amino acid	CF ₃	NH ₂	O-cyclopropyl
amino acid	amino acid	CF ₃	NH ₂	O-acetyl
amino acid	amino acid	CF ₃	NH ₂	SH
amino acid	amino acid	CF ₃	NH ₂	SMe
amino acid	amino acid	CF ₃	NH ₂	SEt
amino acid	amino acid	CF ₃	NH ₂	S-cyclopropyl
amino acid	amino acid	CF ₃	NH ₂	F
amino acid	amino acid	CF ₃	NH ₂	Cl
amino acid	amino acid	CF ₃	NH ₂	Br
amino acid	amino acid	CF ₃	NH ₂	I
amino acid	amino acid	CF ₃	NH ₂	H
H	CF ₃	NH ₂	H	
amino acid	H	CF ₃	NH ₂	NH ₂
amino acid	H	CF ₃	NH ₂	NH-cyclopropyl
amino acid	H	CF ₃	NH ₂	NH-methyl
amino acid	H	CF ₃	NH ₂	NH-ethyl
amino acid	H	CF ₃	NH ₂	NH-acetyl
amino acid	H	CF ₃	NH ₂	OH
amino acid	H	CF ₃	NH ₂	OMe
amino acid	H	CF ₃	NH ₂	OEt
amino acid	H	CF ₃	NH ₂	O-cyclopropyl
amino acid	H	CF ₃	NH ₂	O-acetyl
amino acid	H	CF ₃	NH ₂	SH
amino acid	H	CF ₃	NH ₂	SMe
amino acid	H	CF ₃	NH ₂	SEt
amino acid	H	CF ₃	NH ₂	S-cyclopropyl
amino acid	H	CF ₃	NH ₂	F
amino acid	H	CF ₃	NH ₂	Cl
amino acid	H	CF ₃	NH ₂	Br
amino acid	H	CF ₃	NH ₂	I
amino acid	H	CF ₃	NH ₂	H

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
5	amino acid	H	CF ₃	NH ₂ S-cyclopropyl
	amino acid	H	CF ₃	NH ₂ F
	amino acid	H	CF ₃	NH ₂ Cl
	amino acid	H	CF ₃	NH ₂ Br
	amino acid	H	CF ₃	NH ₂ I
	amino acid	acyl	CF ₃	NH ₂ H
10	amino acid	acyl	CF ₃	NH ₂ NH ₂
	amino acid	acyl	CF ₃	NH ₂ NH-cyclopropyl
	amino acid	acyl	CF ₃	NH ₂ NH-methyl
	amino acid	acyl	CF ₃	NH ₂ NH-ethyl
	amino acid	acyl	CF ₃	NH ₂ NH-acetyl
	amino acid	acyl	CF ₃	NH ₂ OH
15	amino acid	acyl	CF ₃	NH ₂ OMe
	amino acid	acyl	CF ₃	NH ₂ OEt
	amino acid	acyl	CF ₃	NH ₂ O-cyclopropyl
	amino acid	acyl	CF ₃	NH ₂ O-acetyl
	amino acid	acyl	CF ₃	NH ₂ SH
	amino acid	acyl	CF ₃	NH ₂ SMe
	amino acid	acyl	CF ₃	NH ₂ SEt
20	amino acid	acyl	CF ₃	NH ₂ S-cyclopropyl
	amino acid	acyl	CF ₃	NH ₂ F
	amino acid	acyl	CF ₃	NH ₂ Cl
	amino acid	acyl	CF ₃	NH ₂ Br
	amino acid	acyl	CF ₃	NH ₂ I
	acyl	H	Br	NH ₂ H
25	acyl	H	Br	NH ₂ NH ₂
	acyl	H	Br	NH ₂ NH-cyclopropyl
	acyl	H	Br	NH ₂ NH-methyl
	acyl	H	Br	NH ₂ NH-ethyl
	acyl	H	Br	NH ₂ NH-acetyl
	acyl	H	Br	NH ₂ OH
30	acyl	H	Br	NH ₂ OMe
	acyl	H	Br	NH ₂ OEt
	acyl	H	Br	NH ₂ O-cyclopropyl
	acyl	H	Br	NH ₂ O-acetyl
	acyl	H	Br	NH ₂ SH
	acyl	H	Br	NH ₂ SMe
35	acyl	H	Br	NH ₂ SEt
	acyl	H	Br	NH ₂ S-cyclopropyl
	acyl	H	Br	NH ₂ F
	acyl	H	Br	NH ₂ Cl
	acyl	H	Br	NH ₂ Br
	acyl	H	Br	NH ₂ I
	acyl	acyl	Br	NH ₂ H
40	acyl	acyl	Br	NH ₂ NH ₂
	acyl	acyl	Br	NH ₂ NH-cyclopropyl
	acyl	acyl	Br	NH ₂ NH-methyl
	acyl	acyl	Br	NH ₂ NH-ethyl
	acyl	acyl	Br	NH ₂ NH-acetyl
	acyl	acyl	Br	NH ₂ OH
45	acyl	acyl	Br	NH ₂ OMe
	acyl	acyl	Br	NH ₂ OEt
	acyl	acyl	Br	NH ₂ O-cyclopropyl
	acyl	acyl	Br	NH ₂ O-acetyl
	acyl	acyl	Br	NH ₂ SH
	acyl	acyl	Br	NH ₂ SMe
50	acyl	acyl	Br	NH ₂ SEt
	acyl	acyl	Br	NH ₂ S-cyclopropyl
	acyl	acyl	Br	NH ₂ F
	acyl	acyl	Br	NH ₂ Cl
	acyl	acyl	Br	NH ₂ Br
	acyl	acyl	Br	NH ₂ I
55	acyl	amino acid	Br	NH ₂ H
	acyl	amino acid	Br	NH ₂ NH ₂
	acyl	amino acid	Br	NH ₂ NH-cyclopropyl
	acyl	amino acid	Br	NH ₂ NH-methyl
	acyl	amino acid	Br	NH ₂ NH-ethyl
	acyl	amino acid	Br	NH ₂ NH-acetyl
	acyl	amino acid	Br	NH ₂ OH
60	acyl	amino acid	Br	NH ₂ OMe
	acyl	amino acid	Br	NH ₂ OEt
	acyl	amino acid	Br	NH ₂ O-cyclopropyl
	acyl	amino acid	Br	NH ₂ O-acetyl
	acyl	amino acid	Br	NH ₂ SH
	acyl	amino acid	Br	NH ₂ SMe
65	acyl	amino acid	Br	NH ₂ SEt
	acyl	amino acid	Br	NH ₂ S-cyclopropyl

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
acyl	amino acid	Br	NH ₂	F
acyl	amino acid	Br	NH ₂	Cl
acyl	amino acid	Br	NH ₂	Br
acyl	amino acid	Br	NH ₂	I
H	acyl	Br	NH ₂	H
H	acyl	Br	NH ₂	NH ₂
H	acyl	Br	NH ₂	NH-cyclopropyl
H	acyl	Br	NH ₂	NH-methyl
H	acyl	Br	NH ₂	NH-ethyl
H	acyl	Br	NH ₂	NH-acetyl
H	acyl	Br	NH ₂	OH
H	acyl	Br	NH ₂	OMe
H	acyl	Br	NH ₂	OEt
H	acyl	Br	NH ₂	O-cyclopropyl
H	acyl	Br	NH ₂	O-acetyl
H	acyl	Br	NH ₂	SH
H	acyl	Br	NH ₂	SMe
H	acyl	Br	NH ₂	SEt
H	acyl	Br	NH ₂	S-cyclopropyl
H	acyl	Br	NH ₂	F
H	acyl	Br	NH ₂	Cl
H	acyl	Br	NH ₂	Br
H	acyl	Br	NH ₂	I
H	amino acid	Br	NH ₂	H
H	amino acid	Br	NH ₂	NH ₂
H	amino acid	Br	NH ₂	NH-cyclopropyl
H	amino acid	Br	NH ₂	NH-methyl
H	amino acid	Br	NH ₂	NH-ethyl
H	amino acid	Br	NH ₂	NH-acetyl
H	amino acid	Br	NH ₂	OH
H	amino acid	Br	NH ₂	OMe
H	amino acid	Br	NH ₂	OEt
H	amino acid	Br	NH ₂	O-cyclopropyl
H	amino acid	Br	NH ₂	O-acetyl
H	amino acid	Br	NH ₂	SH
H	amino acid	Br	NH ₂	SMe
H	amino acid	Br	NH ₂	SEt
H	amino acid	Br	NH ₂	S-cyclopropyl
H	amino acid	Br	NH ₂	F
H	amino acid	Br	NH ₂	Cl
H	amino acid	Br	NH ₂	Br
H	amino acid	Br	NH ₂	I
amino acid	amino acid	Br	NH ₂	H
amino acid	amino acid	Br	NH ₂	NH ₂
amino acid	amino acid	Br	NH ₂	NH-cyclopropyl
amino acid	amino acid	Br	NH ₂	NH-methyl
amino acid	amino acid	Br	NH ₂	NH-ethyl
amino acid	amino acid	Br	NH ₂	NH-acetyl
amino acid	amino acid	Br	NH ₂	OH
amino acid	amino acid	Br	NH ₂	OMe
amino acid	amino acid	Br	NH ₂	OEt
amino acid	amino acid	Br	NH ₂	O-cyclopropyl
amino acid	amino acid	Br	NH ₂	O-acetyl
amino acid	amino acid	Br	NH ₂	SH
amino acid	amino acid	Br	NH ₂	SMe
amino acid	amino acid	Br	NH ₂	SEt
amino acid	amino acid	Br	NH ₂	S-cyclopropyl
amino acid	amino acid	Br	NH ₂	F
amino acid	amino acid	Br	NH ₂	Cl
amino acid	amino acid	Br	NH ₂	Br
amino acid	amino acid	Br	NH ₂	I
amino acid	amino acid	Br	NH ₂	H
amino acid	H	Br	NH ₂	NH ₂
amino acid	H	Br	NH ₂	NH-cyclopropyl
amino acid	H	Br	NH ₂	NH-methyl
amino acid	H	Br	NH ₂	NH-ethyl
amino acid	H	Br	NH ₂	NH-acetyl
amino acid	H	Br	NH ₂	OH
amino acid	H	Br	NH ₂	OMe
amino acid	H	Br	NH ₂	OEt
amino acid	H	Br	NH ₂	O-cyclopropyl
amino acid	H	Br	NH ₂	O-acetyl
amino acid	H	Br	NH ₂	SH
amino acid	H	Br	NH ₂	SMe
amino acid	H	Br	NH ₂	SEt
amino acid	H	Br	NH ₂	S-cyclopropyl
amino acid	H	Br	NH ₂	F

TABLE 2-continued

	R ²	R ³	X ¹	X ²	Y
5	amino acid	H	Br	NH ₂	Cl
	amino acid	H	Br	NH ₂	Br
	amino acid	H	Br	NH ₂	I
	amino acid	acyl	Br	NH ₂	H
	amino acid	acyl	Br	NH ₂	NH ₂
	amino acid	acyl	Br	NH ₂	NH-cyclopropyl
10	amino acid	acyl	Br	NH ₂	NH-methyl
	amino acid	acyl	Br	NH ₂	NH-ethyl
	amino acid	acyl	Br	NH ₂	NH-acetyl
	amino acid	acyl	Br	NH ₂	OH
	amino acid	acyl	Br	NH ₂	OMe
	amino acid	acyl	Br	NH ₂	OEt
15	amino acid	acyl	Br	NH ₂	O-cyclopropyl
	amino acid	acyl	Br	NH ₂	O-acetyl
	amino acid	acyl	Br	NH ₂	SH
	amino acid	acyl	Br	NH ₂	SMe
	amino acid	acyl	Br	NH ₂	SEt
	amino acid	acyl	Br	NH ₂	S-cyclopropyl
20	amino acid	acyl	Br	NH ₂	F
	amino acid	acyl	Br	NH ₂	Cl
	amino acid	acyl	Br	NH ₂	Br
	acyl	H	Cl	NH ₂	I
	acyl	H	Cl	NH ₂	H
	acyl	H	Cl	NH ₂	NH ₂
25	acyl	H	Cl	NH ₂	NH-cyclopropyl
	acyl	H	Cl	NH ₂	NH-methyl
	acyl	H	Cl	NH ₂	NH-ethyl
	acyl	H	Cl	NH ₂	NH-acetyl
	acyl	H	Cl	NH ₂	OH
	acyl	H	Cl	NH ₂	OMe
	acyl	H	Cl	NH ₂	OEt
30	acyl	H	Cl	NH ₂	O-cyclopropyl
	acyl	H	Cl	NH ₂	O-acetyl
	acyl	H	Cl	NH ₂	SH
	acyl	H	Cl	NH ₂	SMe
	acyl	H	Cl	NH ₂	SEt
	acyl	H	Cl	NH ₂	S-cyclopropyl
35	acyl	H	Cl	NH ₂	F
	acyl	H	Cl	NH ₂	Cl
	acyl	H	Cl	NH ₂	Br
	acyl	H	Cl	NH ₂	I
	acyl	acyl	Cl	NH ₂	H
	acyl	acyl	Cl	NH ₂	NH ₂
40	acyl	acyl	Cl	NH ₂	NH-cyclopropyl
	acyl	acyl	Cl	NH ₂	NH-methyl
	acyl	acyl	Cl	NH ₂	NH-ethyl
	acyl	acyl	Cl	NH ₂	NH-acetyl
	acyl	acyl	Cl	NH ₂	OH
	acyl	acyl	Cl	NH ₂	OMe
	acyl	acyl	Cl	NH ₂	OEt
45	acyl	acyl	Cl	NH ₂	O-cyclopropyl
	acyl	acyl	Cl	NH ₂	O-acetyl
	acyl	acyl	Cl	NH ₂	SH
	acyl	acyl	Cl	NH ₂	SMe
	acyl	acyl	Cl	NH ₂	SEt
	acyl	acyl	Cl	NH ₂	S-cyclopropyl
50	acyl	acyl	Cl	NH ₂	F
	acyl	acyl	Cl	NH ₂	Cl
	acyl	acyl	Cl	NH ₂	Br
	acyl	acyl	Cl	NH ₂	I
	acyl	amino acid	Cl	NH ₂	H
	acyl	amino acid	Cl	NH ₂	NH ₂
55	acyl	amino acid	Cl	NH ₂	NH-cyclopropyl
	acyl	amino acid	Cl	NH ₂	NH-methyl
	acyl	amino acid	Cl	NH ₂	NH-ethyl
	acyl	amino acid	Cl	NH ₂	NH-acetyl
	acyl	amino acid	Cl	NH ₂	OH
	acyl	amino acid	Cl	NH ₂	OMe
	acyl	amino acid	Cl	NH ₂	OEt
60	acyl	amino acid	Cl	NH ₂	O-cyclopropyl
	acyl	amino acid	Cl	NH ₂	O-acetyl
	acyl	amino acid	Cl	NH ₂	SH
	acyl	amino acid	Cl	NH ₂	SMe
	acyl	amino acid	Cl	NH ₂	SEt
	acyl	amino acid	Cl	NH ₂	S-cyclopropyl
65	acyl	amino acid	Cl	NH ₂	F
	acyl	amino acid	Cl	NH ₂	Cl

TABLE 2-continued

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TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
H	acyl	F	NH ₂	H
H	acyl	F	NH ₂	NH ₂
H	acyl	F	NH ₂	NH-cyclopropyl
H	acyl	F	NH ₂	NH-methyl
H	acyl	F	NH ₂	NH-ethyl
H	acyl	F	NH ₂	NH-acetyl
H	acyl	F	NH ₂	OH
H	acyl	F	NH ₂	OMe
H	acyl	F	NH ₂	OEt
H	acyl	F	NH ₂	O-cyclopropyl
H	acyl	F	NH ₂	O-acetyl
H	acyl	F	NH ₂	SH
H	acyl	F	NH ₂	SMe
H	acyl	F	NH ₂	SEt
H	acyl	F	NH ₂	S-cyclopropyl
H	acyl	F	NH ₂	F
H	acyl	F	NH ₂	Cl
H	acyl	F	NH ₂	Br
H	acyl	F	NH ₂	I
H	amino acid	F	NH ₂	H
H	amino acid	F	NH ₂	NH ₂
H	amino acid	F	NH ₂	NH-cyclopropyl
H	amino acid	F	NH ₂	NH-methyl
H	amino acid	F	NH ₂	NH-ethyl
H	amino acid	F	NH ₂	NH-acetyl
H	amino acid	F	NH ₂	OH
H	amino acid	F	NH ₂	OMe
H	amino acid	F	NH ₂	OEt
H	amino acid	F	NH ₂	O-cyclopropyl
H	amino acid	F	NH ₂	O-acetyl
H	amino acid	F	NH ₂	SH
H	amino acid	F	NH ₂	SMe
H	amino acid	F	NH ₂	SEt
H	amino acid	F	NH ₂	S-cyclopropyl
H	amino acid	F	NH ₂	F
H	amino acid	F	NH ₂	Cl
H	amino acid	F	NH ₂	Br
H	amino acid	F	NH ₂	I
amino acid	amino acid	F	NH ₂	H
amino acid	amino acid	F	NH ₂	NH ₂
amino acid	amino acid	F	NH ₂	NH-cyclopropyl
amino acid	amino acid	F	NH ₂	NH-methyl
amino acid	amino acid	F	NH ₂	NH-ethyl
amino acid	amino acid	F	NH ₂	NH-acetyl
amino acid	amino acid	F	NH ₂	OH
amino acid	amino acid	F	NH ₂	OMe
amino acid	amino acid	F	NH ₂	OEt
amino acid	amino acid	F	NH ₂	O-cyclopropyl
amino acid	amino acid	F	NH ₂	O-acetyl
amino acid	amino acid	F	NH ₂	SH
amino acid	amino acid	F	NH ₂	SMe
amino acid	amino acid	F	NH ₂	SEt
amino acid	amino acid	F	NH ₂	S-cyclopropyl
amino acid	amino acid	F	NH ₂	F
amino acid	amino acid	F	NH ₂	Cl
amino acid	amino acid	F	NH ₂	Br
amino acid	amino acid	F	NH ₂	I
amino acid	H	F	NH ₂	H
amino acid	H	F	NH ₂	NH
amino acid	H	F	NH ₂	NH-cyclopropyl
amino acid	H	F	NH ₂	NH-methyl
amino acid	H	F	NH ₂	NH-ethyl
amino acid	H	F	NH ₂	NH-acetyl
amino acid	H	F	NH ₂	OH
amino acid	H	F	NH ₂	OMe
amino acid	H	F	NH ₂	OEt
amino acid	H	F	NH ₂	O-cyclopropyl
amino acid	H	F	NH ₂	O-acetyl
amino acid	H	F	NH ₂	SH
amino acid	H	F	NH ₂	SMe
amino acid	H	F	NH ₂	SEt
amino acid	H	F	NH ₂	S-cyclopropyl
amino acid	H	F	NH ₂	F
amino acid	H	F	NH ₂	Cl
amino acid	H	F	NH ₂	Br
amino acid	H	F	NH ₂	I
amino acid	acyl	F	NH ₂	H

TABLE 2-continued

R ²		R ³	X ¹	X ²	Y
5	amino acid	acyl	F	NH ₂	NH ₂
	amino acid	acyl	F	NH ₂	NH-cyclopropyl
	amino acid	acyl	F	NH ₂	NH-methyl
	amino acid	acyl	F	NH ₂	NH-ethyl
	amino acid	acyl	F	NH ₂	NH-acetyl
	amino acid	acyl	F	NH ₂	OH
10	amino acid	acyl	F	NH ₂	OMe
	amino acid	acyl	F	NH ₂	OEt
	amino acid	acyl	F	NH ₂	O-cyclopropyl
	amino acid	acyl	F	NH ₂	O-acetyl
	amino acid	acyl	F	NH ₂	SH
	amino acid	acyl	F	NH ₂	SMe
15	amino acid	acyl	F	NH ₂	SEt
	amino acid	acyl	F	NH ₂	S-cyclopropyl
	amino acid	acyl	F	NH ₂	F
	amino acid	acyl	F	NH ₂	Cl
	amino acid	acyl	F	NH ₂	Br
	acyl	H	NH ₂	NH ₂	H
	acyl	H	NH ₂	NH ₂	NH ₂
20	acyl	H	NH ₂	NH ₂	NH-cyclopropyl
	acyl	H	NH ₂	NH ₂	NH-methyl
	acyl	H	NH ₂	NH ₂	NH-ethyl
	acyl	H	NH ₂	NH ₂	NH-acetyl
	acyl	H	NH ₂	NH ₂	OH
	acyl	H	NH ₂	NH ₂	OMe
25	acyl	H	NH ₂	NH ₂	OEt
	acyl	H	NH ₂	NH ₂	O-cyclopropyl
	acyl	H	NH ₂	NH ₂	O-acetyl
	acyl	H	NH ₂	NH ₂	SH
	acyl	H	NH ₂	NH ₂	SMe
	acyl	H	NH ₂	NH ₂	SEt
30	acyl	H	NH ₂	NH ₂	S-cyclopropyl
	acyl	H	NH ₂	NH ₂	F
	acyl	H	NH ₂	NH ₂	Cl
	acyl	H	NH ₂	NH ₂	Br
	acyl	H	NH ₂	NH ₂	I
	acyl	acyl	NH ₂	NH ₂	H
35	acyl	acyl	NH ₂	NH ₂	NH ₂
	acyl	acyl	NH ₂	NH ₂	NH-cyclopropyl
	acyl	acyl	NH ₂	NH ₂	NH-methyl
	acyl	acyl	NH ₂	NH ₂	NH-ethyl
	acyl	acyl	NH ₂	NH ₂	NH-acetyl
	acyl	acyl	NH ₂	NH ₂	OH
40	acyl	acyl	NH ₂	NH ₂	OMe
	acyl	acyl	NH ₂	NH ₂	OEt
	acyl	acyl	NH ₂	NH ₂	O-cyclopropyl
	acyl	acyl	NH ₂	NH ₂	O-acetyl
	acyl	acyl	NH ₂	NH ₂	SH
	acyl	acyl	NH ₂	NH ₂	SMe
	acyl	acyl	NH ₂	NH ₂	SEt
45	acyl	acyl	NH ₂	NH ₂	S-cyclopropyl
	acyl	acyl	NH ₂	NH ₂	F
	acyl	acyl	NH ₂	NH ₂	Cl
	acyl	acyl	NH ₂	NH ₂	Br
	acyl	acyl	NH ₂	NH ₂	I
	acyl	amino acid	NH ₂	NH ₂	H
50	acyl	amino acid	NH ₂	NH ₂	NH ₂
	acyl	amino acid	NH ₂	NH ₂	NH-cyclopropyl
	acyl	amino acid	NH ₂	NH ₂	NH-methyl
	acyl	amino acid	NH ₂	NH ₂	NH-ethyl
	acyl	amino acid	NH ₂	NH ₂	NH-acetyl
	acyl	amino acid	NH ₂	NH ₂	OH
55	acyl	amino acid	NH ₂	NH ₂	OMe
	acyl	amino acid	NH ₂	NH ₂	OEt
	acyl	amino acid	NH ₂	NH ₂	O-cyclopropyl
	acyl	amino acid	NH ₂	NH ₂	O-acetyl
	acyl	amino acid	NH ₂	NH ₂	SH
	acyl	amino acid	NH ₂	NH ₂	SMe
	acyl	amino acid	NH ₂	NH ₂	SEt
60	acyl	amino acid	NH ₂	NH ₂	S-cyclopropyl
	acyl	amino acid	NH ₂	NH ₂	F
	acyl	amino acid	NH ₂	NH ₂	Cl
	acyl	amino acid	NH ₂	NH ₂	Br
	acyl	amino acid	NH ₂	NH ₂	I
	H	acyl	NH ₂	NH ₂	H
65	H	acyl	NH ₂	NH ₂	NH ₂
	H	acyl	NH ₂	NH ₂	NH-cyclopropyl

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
H	acyl	NH ₂	NH ₂	NH-methyl
H	acyl	NH ₂	NH ₂	NH-ethyl
H	acyl	NH ₂	NH ₂	NH-acetyl
H	acyl	NH ₂	NH ₂	OH
H	acyl	NH ₂	NH ₂	OMe
H	acyl	NH ₂	NH ₂	OEt
H	acyl	NH ₂	NH ₂	O-cyclopropyl
H	acyl	NH ₂	NH ₂	O-acetyl
H	acyl	NH ₂	NH ₂	SH
H	acyl	NH ₂	NH ₂	SMe
H	acyl	NH ₂	NH ₂	SEt
H	acyl	NH ₂	NH ₂	S-cyclopropyl
H	acyl	NH ₂	NH ₂	F
H	acyl	NH ₂	NH ₂	Cl
H	acyl	NH ₂	NH ₂	Br
H	acyl	NH ₂	NH ₂	I
H	amino acid	NH ₂	NH ₂	H
H	amino acid	NH ₂	NH ₂	NH ₂
H	amino acid	NH ₂	NH ₂	NH-cyclopropyl
H	amino acid	NH ₂	NH ₂	NH-methyl
H	amino acid	NH ₂	NH ₂	NH-ethyl
H	amino acid	NH ₂	NH ₂	NH-acetyl
H	amino acid	NH ₂	NH ₂	OH
H	amino acid	NH ₂	NH ₂	OMe
H	amino acid	NH ₂	NH ₂	OEt
H	amino acid	NH ₂	NH ₂	O-cyclopropyl
H	amino acid	NH ₂	NH ₂	O-acetyl
H	amino acid	NH ₂	NH ₂	SH
H	amino acid	NH ₂	NH ₂	SMe
H	amino acid	NH ₂	NH ₂	SEt
H	amino acid	NH ₂	NH ₂	S-cyclopropyl
H	amino acid	NH ₂	NH ₂	F
H	amino acid	NH ₂	NH ₂	Cl
H	amino acid	NH ₂	NH ₂	Br
H	amino acid	NH ₂	NH ₂	I
H	amino acid	NH ₂	NH ₂	H
amino acid	amino acid	NH ₂	NH ₂	H
amino acid	amino acid	NH ₂	NH ₂	NH ₂
amino acid	amino acid	NH ₂	NH ₂	NH-cyclopropyl
amino acid	amino acid	NH ₂	NH ₂	NH-methyl
amino acid	amino acid	NH ₂	NH ₂	NH-ethyl
amino acid	amino acid	NH ₂	NH ₂	NH-acetyl
amino acid	amino acid	NH ₂	NH ₂	OH
amino acid	amino acid	NH ₂	NH ₂	OMe
amino acid	amino acid	NH ₂	NH ₂	OEt
amino acid	amino acid	NH ₂	NH ₂	O-cyclopropyl
amino acid	amino acid	NH ₂	NH ₂	O-acetyl
amino acid	amino acid	NH ₂	NH ₂	SH
amino acid	amino acid	NH ₂	NH ₂	SMe
amino acid	amino acid	NH ₂	NH ₂	SEt
amino acid	amino acid	NH ₂	NH ₂	S-cyclopropyl
amino acid	amino acid	NH ₂	NH ₂	F
amino acid	amino acid	NH ₂	NH ₂	Cl
amino acid	amino acid	NH ₂	NH ₂	Br
amino acid	amino acid	NH ₂	NH ₂	I
amino acid	amino acid	NH ₂	NH ₂	H
amino acid	H	NH ₂	NH ₂	H
amino acid	H	NH ₂	NH ₂	NH ₂
amino acid	H	NH ₂	NH ₂	NH-cyclopropyl
amino acid	H	NH ₂	NH ₂	NH-methyl
amino acid	H	NH ₂	NH ₂	NH-ethyl
amino acid	H	NH ₂	NH ₂	NH-acetyl
amino acid	H	NH ₂	NH ₂	OH
amino acid	H	NH ₂	NH ₂	OMe
amino acid	H	NH ₂	NH ₂	OEt
amino acid	H	NH ₂	NH ₂	O-cyclopropyl
amino acid	H	NH ₂	NH ₂	O-acetyl
amino acid	H	NH ₂	NH ₂	SH
amino acid	H	NH ₂	NH ₂	SMe
amino acid	H	NH ₂	NH ₂	SEt
amino acid	H	NH ₂	NH ₂	S-cyclopropyl
amino acid	H	NH ₂	NH ₂	F
amino acid	H	NH ₂	NH ₂	Cl
amino acid	H	NH ₂	NH ₂	Br
amino acid	H	NH ₂	NH ₂	I
amino acid	H	NH ₂	NH ₂	H
amino acid	acyl	NH ₂	NH ₂	H
amino acid	acyl	NH ₂	NH ₂	NH ₂
amino acid	acyl	NH ₂	NH ₂	NH-cyclopropyl
amino acid	acyl	NH ₂	NH ₂	NH-methyl

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
5	amino acid	acyl	NH ₂	NH-ethyl
	amino acid	acyl	NH ₂	NH-acetyl
	amino acid	acyl	NH ₂	OH
	amino acid	acyl	NH ₂	OMe
	amino acid	acyl	NH ₂	OEt
	amino acid	acyl	NH ₂	O-cyclopropyl
10	amino acid	acyl	NH ₂	O-acetyl
	amino acid	acyl	NH ₂	SH
	amino acid	acyl	NH ₂	SMe
	amino acid	acyl	NH ₂	SEt
	amino acid	acyl	NH ₂	S-cyclopropyl
	amino acid	acyl	NH ₂	F
15	amino acid	acyl	NH ₂	Cl
	amino acid	acyl	NH ₂	Br
	amino acid	acyl	NH ₂	I
	acyl	H	SH	H
	acyl	H	SH	NH ₂
	acyl	H	SH	NH-cyclopropyl
20	acyl	H	SH	NH-methyl
	acyl	H	SH	NH-ethyl
	acyl	H	SH	NH-acetyl
	acyl	H	SH	OH
	acyl	H	SH	OMe
	acyl	H	SH	OEt
25	acyl	H	SH	O-cyclopropyl
	acyl	H	SH	O-acetyl
	acyl	H	SH	SH
	acyl	H	SH	SMe
	acyl	H	SH	SEt
	acyl	H	SH	S-cyclopropyl
	acyl	H	SH	F
30	acyl	H	SH	Cl
	acyl	H	SH	Br
	acyl	H	SH	I
	acyl	acyl	SH	H
	acyl	acyl	SH	NH ₂
	acyl	acyl	SH	NH-cyclopropyl
35	acyl	acyl	SH	NH-methyl
	acyl	acyl	SH	NH-ethyl
	acyl	acyl	SH	NH-acetyl
	acyl	acyl	SH	OH
	acyl	acyl	SH	OMe
	acyl	acyl	SH	OEt
40	acyl	acyl	SH	O-cyclopropyl
	acyl	acyl	SH	O-acetyl
	acyl	acyl	SH	SH
	acyl	acyl	SH	SMe
	acyl	acyl	SH	SEt
	acyl	acyl	SH	S-cyclopropyl
	acyl	acyl	SH	F
45	acyl	acyl	SH	Cl
	acyl	acyl	SH	Br
	acyl	acyl	SH	I
	acyl	amino acid	SH	H
	acyl	amino acid	SH	NH ₂
	acyl	amino acid	SH	NH-cyclopropyl
50	acyl	amino acid	SH	NH-methyl
	acyl	amino acid	SH	NH-ethyl
	acyl	amino acid	SH	NH-acetyl
	acyl	amino acid	SH	OH
	acyl	amino acid	SH	OMe
	acyl	amino acid	SH	OEt
55	acyl	amino acid	SH	O-cyclopropyl
	acyl	amino acid	SH	O-acetyl
	acyl	amino acid	SH	SH
	acyl	amino acid	SH	SMe
	acyl	amino acid	SH	SEt
	acyl	amino acid	SH	S-cyclopropyl
	acyl	amino acid	SH	F
60	acyl	amino acid	SH	Cl
	acyl	amino acid	SH	Br
	acyl	amino acid	SH	I
	H	acyl	SH	H
	H	acyl	SH	NH ₂
	H	acyl	SH	NH-cyclopropyl
65	H	acyl	SH	NH-methyl
	H	acyl	SH	NH-ethyl

TABLE 2-continued

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TABLE 2-continued

	R ²	R ³	X ¹	X ²	Y
5	amino acid	acyl	OH	NH ₂	OEt
	amino acid	acyl	OH	NH ₂	O-cyclopropyl
	amino acid	acyl	OH	NH ₂	O-acetyl
	amino acid	acyl	OH	NH ₂	SH
	amino acid	acyl	OH	NH ₂	SMe
	amino acid	acyl	OH	NH ₂	SEt
10	amino acid	acyl	OH	NH ₂	S-cyclopropyl
	amino acid	acyl	OH	NH ₂	F
	amino acid	acyl	OH	NH ₂	Cl
	amino acid	acyl	OH	NH ₂	Br
	amino acid	acyl	OH	NH ₂	I
	acyl	H	CH ₃	SH	H
15	acyl	H	CH ₃	SH	NH ₂
	acyl	H	CH ₃	SH	NH-cyclopropyl
	acyl	H	CH ₃	SH	NH-methyl
	acyl	H	CH ₃	SH	NH-ethyl
	acyl	H	CH ₃	SH	NH-acetyl
	acyl	H	CH ₃	SH	OH
20	acyl	H	CH ₃	SH	OMe
	acyl	H	CH ₃	SH	OFt
	acyl	H	CH ₃	SH	O-cyclopropyl
	acyl	H	CH ₃	SH	O-acetyl
	acyl	H	CH ₃	SH	SH
	acyl	H	CH ₃	SH	SMe
	acyl	H	CH ₃	SH	SEt
25	acyl	H	CH ₃	SH	S-cyclopropyl
	acyl	H	CH ₃	SH	F
	acyl	H	CH ₃	SH	Cl
	acyl	H	CH ₃	SH	Br
	acyl	H	CH ₃	SH	I
	acyl	acyl	CH ₃	SH	H
30	acyl	acyl	CH ₃	SH	NH ₂
	acyl	acyl	CH ₃	SH	NH-cyclopropyl
	acyl	acyl	CH ₃	SH	NH-methyl
	acyl	acyl	CH ₃	SH	NH-ethyl
	acyl	acyl	CH ₃	SH	NH-acetyl
	acyl	acyl	CH ₃	SH	OH
35	acyl	acyl	CH ₃	SH	OMe
	acyl	acyl	CH ₃	SH	OEt
	acyl	acyl	CH ₃	SH	O-cyclopropyl
	acyl	acyl	CH ₃	SH	O-acetyl
	acyl	acyl	CH ₃	SH	SH
	acyl	acyl	CH ₃	SH	SMe
40	acyl	acyl	CH ₃	SH	SEt
	acyl	acyl	CH ₃	SH	S-cyclopropyl
	acyl	acyl	CH ₃	SH	F
	acyl	acyl	CH ₃	SH	Cl
	acyl	acyl	CH ₃	SH	Br
	acyl	acyl	CH ₃	SH	I
	acyl	amino acid	CH ₃	SH	H
45	acyl	amino acid	CH ₃	SH	NH ₂
	acyl	amino acid	CH ₃	SH	NH-cyclopropyl
	acyl	amino acid	CH ₃	SH	NH-methyl
	acyl	amino acid	CH ₃	SH	NH-ethyl
	acyl	amino acid	CH ₃	SH	NH-acetyl
	acyl	amino acid	CH ₃	SH	OH
50	acyl	amino acid	CH ₃	SH	OMe
	acyl	amino acid	CH ₃	SH	OEt
	acyl	amino acid	CH ₃	SH	O-cyclopropyl
	acyl	amino acid	CH ₃	SH	O-acetyl
	acyl	amino acid	CH ₃	SH	SH
	acyl	amino acid	CH ₃	SH	SMe
55	acyl	amino acid	CH ₃	SH	SEt
	acyl	amino acid	CH ₃	SH	S-cyclopropyl
	acyl	amino acid	CH ₃	SH	F
	acyl	amino acid	CH ₃	SH	Cl
	acyl	amino acid	CH ₃	SH	Br
	acyl	amino acid	CH ₃	SH	I
60	H	acyl	CH ₃	SH	H
	H	acyl	CH ₃	SH	NH ₂
	H	acyl	CH ₃	SH	NH-cyclopropyl
	H	acyl	CH ₃	SH	NH-methyl
	H	acyl	CH ₃	SH	NH-ethyl
	H	acyl	CH ₃	SH	NH-acetyl
	H	acyl	CH ₃	SH	OH
65	H	acyl	CH ₃	SH	OMe
	H	acyl	CH ₃	SH	OEt

TABLE 2-continued

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TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
H	acyl	CF ₃	SH	SH
H	acyl	CF ₃	SH	SMe
H	acyl	CF ₃	SH	SEt
H	acyl	CF ₃	SH	S-cyclopropyl
H	acyl	CF ₃	SH	F
H	acyl	CF ₃	SH	Cl
H	acyl	CF ₃	SH	Br
H	acyl	CF ₃	SH	I
H	amino acid	CF ₃	SH	H
H	amino acid	CF ₃	SH	NH ₂
H	amino acid	CF ₃	SH	NH-cyclopropyl
H	amino acid	CF ₃	SH	NH-methyl
H	amino acid	CF ₃	SH	NH-ethyl
H	amino acid	CF ₃	SH	NH-acetyl
H	amino acid	CF ₃	SH	OH
H	amino acid	CF ₃	SH	OMe
H	amino acid	CF ₃	SH	OEt
H	amino acid	CF ₃	SH	O-cyclopropyl
H	amino acid	CF ₃	SH	O-acetyl
H	amino acid	CF ₃	SH	SH
H	amino acid	CF ₃	SH	SMe
H	amino acid	CF ₃	SH	SEt
H	amino acid	CF ₃	SH	S-cyclopropyl
H	amino acid	CF ₃	SH	F
H	amino acid	CF ₃	SH	Cl
H	amino acid	CF ₃	SH	Br
H	amino acid	CF ₃	SH	I
amino acid	amino acid	CF ₃	SH	H
amino acid	amino acid	CF ₃	SH	NH ₂
amino acid	amino acid	CF ₃	SH	NH-cyclopropyl
amino acid	amino acid	CF ₃	SH	NH-methyl
amino acid	amino acid	CF ₃	SH	NH-ethyl
amino acid	amino acid	CF ₃	SH	NH-acetyl
amino acid	amino acid	CF ₃	SH	OH
amino acid	amino acid	CF ₃	SH	OMe
amino acid	amino acid	CF ₃	SH	OEt
amino acid	amino acid	CF ₃	SH	O-cyclopropyl
amino acid	amino acid	CF ₃	SH	O-acetyl
amino acid	amino acid	CF ₃	SH	SH
amino acid	amino acid	CF ₃	SH	SMe
amino acid	amino acid	CF ₃	SH	SEt
amino acid	amino acid	CF ₃	SH	S-cyclopropyl
amino acid	amino acid	CF ₃	SH	F
amino acid	amino acid	CF ₃	SH	Cl
amino acid	amino acid	CF ₃	SH	Br
amino acid	amino acid	CF ₃	SH	I
amino acid	H	CF ₃	SH	H
amino acid	H	CF ₃	SH	NH ₂
amino acid	H	CF ₃	SH	NH-cyclopropyl
amino acid	H	CF ₃	SH	NH-methyl
amino acid	H	CF ₃	SH	NH-ethyl
amino acid	H	CF ₃	SH	NH-acetyl
amino acid	H	CF ₃	SH	OH
amino acid	H	CF ₃	SH	OMe
amino acid	H	CF ₃	SH	OEt
amino acid	H	CF ₃	SH	O-cyclopropyl
amino acid	H	CF ₃	SH	O-acetyl
amino acid	H	CF ₃	SH	SH
amino acid	H	CF ₃	SH	SMe
amino acid	H	CF ₃	SH	SEt
amino acid	H	CF ₃	SH	S-cyclopropyl
amino acid	H	CF ₃	SH	F
amino acid	H	CF ₃	SH	Cl
amino acid	H	CF ₃	SH	Br
amino acid	H	CF ₃	SH	I
amino acid	acyl	CF ₃	SH	H
amino acid	acyl	CF ₃	SH	NH ₂
amino acid	acyl	CF ₃	SH	NH-cyclopropyl
amino acid	acyl	CF ₃	SH	NH-methyl
amino acid	acyl	CF ₃	SH	NH-ethyl
amino acid	acyl	CF ₃	SH	NH-acetyl
amino acid	acyl	CF ₃	SH	OH
amino acid	acyl	CF ₃	SH	OMe
amino acid	acyl	CF ₃	SH	OEt
amino acid	acyl	CF ₃	SH	O-cyclopropyl
amino acid	acyl	CF ₃	SH	O-acetyl
amino acid	acyl	CF ₃	SH	SH
amino acid	acyl	CF ₃	SH	SMe
amino acid	acyl	CF ₃	SH	SEt
amino acid	acyl	CF ₃	SH	S-cyclopropyl
amino acid	acyl	CF ₃	SH	F
amino acid	acyl	CF ₃	SH	Cl
amino acid	acyl	CF ₃	SH	Br
amino acid	acyl	CF ₃	SH	I

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
5	amino acid	acyl	CF ₃	SH
	amino acid	acyl	CF ₃	SMe
	amino acid	acyl	CF ₃	SEt
	amino acid	acyl	CF ₃	S-cyclopropyl
	amino acid	acyl	CF ₃	F
	amino acid	acyl	CF ₃	Cl
	amino acid	acyl	CF ₃	Br
10	amino acid	acyl	CF ₃	I
	acyl	H	Br	SH
	acyl	H	Br	SH
	acyl	H	Br	NH ₂
	acyl	H	Br	NH-cyclopropyl
	acyl	H	Br	NH-methyl
	acyl	H	Br	NH-ethyl
15	acyl	H	Br	NH-acetyl
	acyl	H	Br	OH
	acyl	H	Br	OMe
	acyl	H	Br	OEt
	acyl	H	Br	O-cyclopropyl
	acyl	H	Br	O-acetyl
	acyl	H	Br	SH
20	acyl	H	Br	SMe
	acyl	H	Br	SEt
	acyl	H	Br	S-cyclopropyl
	acyl	H	Br	F
	acyl	H	Br	Cl
	acyl	H	Br	Br
25	acyl	H	Br	I
	acyl	acyl	Br	SH
	acyl	acyl	Br	SH
	acyl	acyl	Br	NH ₂
	acyl	acyl	Br	NH-cyclopropyl
	acyl	acyl	Br	NH-methyl
	acyl	acyl	Br	NH-ethyl
30	acyl	acyl	Br	NH-acetyl
	acyl	acyl	Br	OH
	acyl	acyl	Br	OMe
	acyl	acyl	Br	OEt
	acyl	acyl	Br	O-cyclopropyl
	acyl	acyl	Br	O-acetyl
35	acyl	acyl	Br	SH
	acyl	acyl	Br	SMe
	acyl	acyl	Br	SEt
	acyl	acyl	Br	S-cyclopropyl
	acyl	acyl	Br	F
	acyl	acyl	Br	Cl
	acyl	acyl	Br	Br
40	acyl	acyl	Br	I
	acyl	amino acid	Br	SH
	acyl	amino acid	Br	SH
	acyl	amino acid	Br	NH ₂
	acyl	amino acid	Br	NH-cyclopropyl
	acyl	amino acid	Br	NH-methyl
	acyl	amino acid	Br	NH-ethyl
45	acyl	amino acid	Br	NH-acetyl
	acyl	amino acid	Br	OH
	acyl	amino acid	Br	OMe
	acyl	amino acid	Br	OEt
	acyl	amino acid	Br	O-cyclopropyl
	acyl	amino acid	Br	O-acetyl
50	acyl	amino acid	Br	SH
	acyl	amino acid	Br	SMe
	acyl	amino acid	Br	SEt
	acyl	amino acid	Br	S-cyclopropyl
	acyl	amino acid	Br	F
	acyl	amino acid	Br	Cl
55	acyl	amino acid	Br	Br
	acyl	amino acid	Br	I
	H	acyl	Br	SH
	H	acyl	Br	SH
	H	acyl	Br	NH ₂
	H	acyl	Br	NH-cyclopropyl
	H	acyl	Br	NH-methyl
60	H	acyl	Br	NH-ethyl
	H	acyl	Br	NH-acetyl
	H	acyl	Br	OH
	H	acyl	Br	OMe
	H	acyl	Br	OEt
	H	acyl	Br	O-cyclopropyl
	H	acyl	Br	O-acetyl
65	H	acyl	Br	SH
	H	acyl	Br	SMe

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
H	acyl	Br	SR	SEt
H	acyl	Br	SR	S-cyclopropyl
H	acyl	Br	SR	F
H	acyl	Br	SR	Cl
H	acyl	Br	SR	Br
H	acyl	Br	SR	I
H	amino acid	Br	SR	H
H	amino acid	Br	SR	NH ₂
H	amino acid	Br	SR	NH-cyclopropyl
H	amino acid	Br	SR	NH-methyl
H	amino acid	Br	SR	NH-ethyl
H	amino acid	Br	SR	NH-acetyl
H	amino acid	Br	SR	OR
H	amino acid	Br	SR	OMe
H	amino acid	Br	SR	OEt
H	amino acid	Br	SR	O-cyclopropyl
H	amino acid	Br	SR	O-acetyl
H	amino acid	Br	SR	SR
H	amino acid	Br	SR	SMe
H	amino acid	Br	SR	SEt
H	amino acid	Br	SR	S-cyclopropyl
H	amino acid	Br	SR	F
H	amino acid	Br	SR	Cl
H	amino acid	Br	SR	Br
H	amino acid	Br	SR	I
amino acid	amino acid	Br	SR	H
amino acid	amino acid	Br	SH	NH ₂
amino acid	amino acid	Br	SH	NH-cyclopropyl
amino acid	amino acid	Br	SH	NH-methyl
amino acid	amino acid	Br	SH	NH-ethyl
amino acid	amino acid	Br	SH	NH-acetyl
amino acid	amino acid	Br	SH	OH
amino acid	amino acid	Br	SH	OMe
amino acid	amino acid	Br	SH	OEt
amino acid	amino acid	Br	SH	O-cyclopropyl
amino acid	amino acid	Br	SH	O-acetyl
amino acid	amino acid	Br	SH	SH
amino acid	amino acid	Br	SH	SMe
amino acid	amino acid	Br	SH	SEt
amino acid	amino acid	Br	SH	S-cyclopropyl
amino acid	amino acid	Br	SH	F
amino acid	amino acid	Br	SH	Cl
amino acid	amino acid	Br	SH	Br
amino acid	amino acid	Br	SH	I
amino acid	H	Br	SH	H
amino acid	H	Br	SH	NH ₂
amino acid	H	Br	SH	NH-cyclopropyl
amino acid	H	Br	SH	NH-methyl
amino acid	H	Br	SH	NH-ethyl
amino acid	H	Br	SH	NH-acetyl
amino acid	H	Br	SH	OH
amino acid	H	Br	SH	OMe
amino acid	H	Br	SH	OEt
amino acid	H	Br	SH	O-cyclopropyl
amino acid	H	Br	SH	O-acetyl
amino acid	H	Br	SH	SH
amino acid	H	Br	SH	SMe
amino acid	H	Br	SH	SEt
amino acid	H	Br	SH	S-cyclopropyl
amino acid	H	Br	SH	F
amino acid	H	Br	SH	Cl
amino acid	H	Br	SH	Br
amino acid	H	Br	SH	I
amino acid	acyl	Br	SH	H
amino acid	acyl	Br	SH	NH ₂
amino acid	acyl	Br	SH	NH-cyclopropyl
amino acid	acyl	Br	SH	NH-methyl
amino acid	acyl	Br	SH	NH-ethyl
amino acid	acyl	Br	SH	NH-acetyl
amino acid	acyl	Br	SH	OH
amino acid	acyl	Br	SH	OMe
amino acid	acyl	Br	SH	OEt
amino acid	acyl	Br	SH	O-cyclopropyl
amino acid	acyl	Br	SH	O-acetyl
amino acid	acyl	Br	SH	SH
amino acid	acyl	Br	SH	SMe
amino acid	acyl	Br	SH	SEt

TABLE 2-continued

	R ²	R ³	X ¹	X ²	Y
5	amino acid	acyl	Br	SH	S-cyclopropyl
	amino acid	acyl	Br	SH	F
	amino acid	acyl	Br	SH	Cl
	amino acid	acyl	Br	SH	Br
	amino acid	acyl	Br	SH	I
	acyl	H	Cl	SH	H
10	acyl	H	Cl	SH	NH ₂
	acyl	H	Cl	SH	NH-cyclopropyl
	acyl	H	Cl	SH	NH-methyl
	acyl	H	Cl	SH	NH-ethyl
	acyl	H	Cl	SH	NH-acetyl
	acyl	H	Cl	SH	OH
15	acyl	H	Cl	SH	OMe
	acyl	H	Cl	SH	OEt
	acyl	H	Cl	SH	O-cyclopropyl
	acyl	H	Cl	SH	O-acetyl
	acyl	H	Cl	SH	SH
	acyl	H	Cl	SH	SMe
20	acyl	H	Cl	SH	SEt
	acyl	H	Cl	SH	S-cyclopropyl
	acyl	H	Cl	SH	F
	acyl	H	Cl	SH	Cl
	acyl	H	Cl	SH	Br
	acyl	H	Cl	SH	I
25	acyl	acyl	Cl	SH	H
	acyl	acyl	Cl	SH	NH ₂
	acyl	acyl	Cl	SH	NH-cyclopropyl
	acyl	acyl	Cl	SH	NH-methyl
	acyl	acyl	Cl	SH	NH-ethyl
	acyl	acyl	Cl	SH	NH-acetyl
	acyl	acyl	Cl	SH	OH
30	acyl	acyl	Cl	SH	OMe
	acyl	acyl	Cl	SH	OEt
	acyl	acyl	Cl	SH	O-cyclopropyl
	acyl	acyl	Cl	SH	O-acetyl
	acyl	acyl	Cl	SH	SH
	acyl	acyl	Cl	SH	SMe
35	acyl	acyl	Cl	SH	SEt
	acyl	acyl	Cl	SH	S-cyclopropyl
	acyl	acyl	Cl	SH	F
	acyl	acyl	Cl	SH	Cl
	acyl	acyl	Cl	SH	Br
	acyl	acyl	Cl	SH	I
40	acyl	amino acid	Cl	SH	H
	acyl	amino acid	Cl	SH	NH ₂
	acyl	amino acid	Cl	SH	NH-cyclopropyl
	acyl	amino acid	Cl	SH	NH-methyl
	acyl	amino acid	Cl	SH	NH-ethyl
	acyl	amino acid	Cl	SH	NH-acetyl
	acyl	amino acid	Cl	SH	OH
45	acyl	amino acid	Cl	SH	OMe
	acyl	amino acid	Cl	SH	OEt
	acyl	amino acid	Cl	SH	O-cyclopropyl
	acyl	amino acid	Cl	SH	O-acetyl
	acyl	amino acid	Cl	SH	SH
	acyl	amino acid	Cl	SH	SMe
50	acyl	amino acid	Cl	SH	SEt
	acyl	amino acid	Cl	SH	S-cyclopropyl
	acyl	amino acid	Cl	SH	F
	acyl	amino acid	Cl	SH	Cl
	acyl	amino acid	Cl	SH	Br
	acyl	amino acid	Cl	SH	I
55	H	acyl	Cl	SH	H
	H	acyl	Cl	SH	NH ₂
	H	acyl	Cl	SH	NH-cyclopropyl
	H	acyl	Cl	SH	NH-methyl
	H	acyl	Cl	SH	NH-ethyl
	H	acyl	Cl	SH	NH-acetyl
60	H	acyl	Cl	SH	OH
	H	acyl	Cl	SH	OMe
	H	acyl	Cl	SH	OEt
	H	acyl	Cl	SH	O-cyclopropyl
	H	acyl	Cl	SH	O-acetyl
	H	acyl	Cl	SH	SH
	H	acyl	Cl	SH	SMe
65	H	acyl	Cl	SH	SEt
	H	acyl	Cl	SH	S-cyclopropyl

TABLE 2-continued

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TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
H	acyl	F	SH	Br
H	acyl	F	SH	I
H	amino acid	F	SH	H
H	amino acid	F	SH	NH ₃
H	amino acid	F	SH	NH-cyclopropyl
H	amino acid	F	SH	NH-methyl
H	amino acid	F	SH	NH-ethyl
H	amino acid	F	SH	NH-acetyl
H	amino acid	F	SH	OH
H	amino acid	F	SH	OMe
H	amino acid	F	SH	OEt
H	amino acid	F	SH	O-cyclopropyl
H	amino acid	F	SH	O-acetyl
H	amino acid	F	SH	SH
H	amino acid	F	SH	SMe
H	amino acid	F	SH	SEt
H	amino acid	F	SH	S-cyclopropyl
H	amino acid	F	SH	F
H	amino acid	F	SH	Cl
H	amino acid	F	SH	Br
H	amino acid	F	SH	I
amino acid	amino acid	F	SH	H
amino acid	amino acid	F	SH	NH ₂
amino acid	amino acid	F	SH	NH-cyclopropyl
amino acid	amino acid	F	SH	NH-methyl
amino acid	amino acid	F	SH	NH-ethyl
amino acid	amino acid	F	SH	NH-acetyl
amino acid	amino acid	F	SH	OH
amino acid	amino acid	F	SH	OMe
amino acid	amino acid	F	SH	OEt
amino acid	amino acid	F	SH	O-cyclopropyl
amino acid	amino acid	F	SH	O-acetyl
amino acid	amino acid	F	SH	SH
amino acid	amino acid	F	SH	SMe
amino acid	amino acid	F	SH	SEt
amino acid	amino acid	F	SH	S-cyclopropyl
amino acid	amino acid	F	SH	F
amino acid	amino acid	F	SH	Cl
amino acid	amino acid	F	SH	Br
amino acid	amino acid	F	SH	I
amino acid	H	F	SH	H
amino acid	H	F	SH	NH ₃
amino acid	H	F	SH	NH-cyclopropyl
amino acid	H	F	SH	NH-methyl
amino acid	H	F	SH	NH-ethyl
amino acid	H	F	SH	NH-acetyl
amino acid	H	F	SH	OH
amino acid	H	F	SH	OMe
amino acid	H	F	SH	OEt
amino acid	H	F	SH	O-cyclopropyl
amino acid	H	F	SH	O-acetyl
amino acid	H	F	SH	SH
amino acid	H	F	SH	SMe
amino acid	H	F	SH	SEt
amino acid	H	F	SH	S-cyclopropyl
amino acid	H	F	SH	F
amino acid	H	F	SH	Cl
amino acid	H	F	SH	Br
amino acid	H	F	SH	I
amino acid	acyl	F	SH	H
amino acid	acyl	F	SH	NH ₂
amino acid	acyl	F	SH	NH-cyclopropyl
amino acid	acyl	F	SH	NH-methyl
amino acid	acyl	F	SH	NH-ethyl
amino acid	acyl	F	SH	NH-acetyl
amino acid	acyl	F	SH	OH
amino acid	acyl	F	SH	OMe
amino acid	acyl	F	SH	OEt
amino acid	acyl	F	SH	O-cyclopropyl
amino acid	acyl	F	SH	O-acetyl
amino acid	acyl	F	SH	SH
amino acid	acyl	F	SH	SMe
amino acid	acyl	F	SH	SEt
amino acid	acyl	F	SH	S-cyclopropyl
amino acid	acyl	F	SH	F
amino acid	acyl	F	SH	Cl
amino acid	acyl	F	SH	Br
amino acid	acyl	F	SH	I

TABLE 2-continued

	R ²	R ³	X ¹	X ²	Y
5	acyl	H	NH ₂	SH	H
	acyl	H	NH ₂	SH	NH ₂
	acyl	H	NH ₂	SH	NH-cyclopropyl
	acyl	H	NH ₂	SH	NH-methyl
	acyl	H	NH ₂	SH	NH-ethyl
	acyl	H	NH ₂	SH	NH-acetyl
10	acyl	H	NH ₂	SH	OH
	acyl	H	NH ₂	SH	OMe
	acyl	H	NH ₂	SH	OEt
	acyl	H	NH ₂	SH	O-cyclopropyl
	acyl	H	NH ₂	SH	O-acetyl
	acyl	H	NH ₂	SH	SH
15	acyl	H	NH ₂	SH	SMe
	acyl	H	NH ₂	SH	SEt
	acyl	H	NH ₂	SH	S-cyclopropyl
	acyl	H	NH ₂	SH	F
	acyl	H	NH ₂	SH	Cl
	acyl	H	NH ₂	SH	Br
20	acyl	H	NH ₂	SH	I
	acyl	acyl	NH ₂	SH	H
	acyl	acyl	NH ₂	SH	NH ₂
	acyl	acyl	NH ₂	SH	NH-cyclopropyl
	acyl	acyl	NH ₂	SH	NH-methyl
	acyl	acyl	NH ₂	SH	NH-ethyl
25	acyl	acyl	NH ₂	SH	NH-acetyl
	acyl	acyl	NH ₂	SH	OH
	acyl	acyl	NH ₂	SH	OMe
	acyl	acyl	NH ₂	SH	OEt
	acyl	acyl	NH ₂	SH	O-cyclopropyl
	acyl	acyl	NH ₂	SH	O-acetyl
	acyl	acyl	NH ₂	SH	SH
30	acyl	acyl	NH ₂	SH	SMe
	acyl	acyl	NH ₂	SH	SEt
	acyl	acyl	NH ₂	SH	S-cyclopropyl
	acyl	acyl	NH ₂	SH	F
	acyl	acyl	NH ₂	SH	Cl
	acyl	acyl	NH ₂	SH	Br
35	acyl	acyl	NH ₂	SH	I
	acyl	amino acid	NH ₂	SH	H
	acyl	amino acid	NH ₂	SH	NH ₂
	acyl	amino acid	NH ₂	SH	NH-cyclopropyl
	acyl	amino acid	NH ₂	SH	NH-methyl
	acyl	amino acid	NH ₂	SH	NH-ethyl
40	acyl	amino acid	NH ₂	SH	NH-acetyl
	acyl	amino acid	NH ₂	SH	OH
	acyl	amino acid	NH ₂	SH	OMe
	acyl	amino acid	NH ₂	SH	OEt
	acyl	amino acid	NH ₂	SH	O-cyclopropyl
	acyl	amino acid	NH ₂	SH	O-acetyl
	acyl	amino acid	NH ₂	SH	SH
45	acyl	amino acid	NH ₂	SH	SMe
	acyl	amino acid	NH ₂	SH	SEt
	acyl	amino acid	NH ₂	SH	S-cyclopropyl
	acyl	amino acid	NH ₂	SH	F
	acyl	amino acid	NH ₂	SH	Cl
	acyl	amino acid	NH ₂	SH	Br
50	acyl	amino acid	NH ₂	SH	I
	H	acyl	NH ₂	SH	H
	H	acyl	NH ₂	SH	NH ₂
	H	acyl	NH ₂	SH	NH-cyclopropyl
	H	acyl	NH ₂	SH	NH-methyl
	H	acyl	NH ₂	SH	NH-ethyl
55	H	acyl	NH ₂	SH	NH-acetyl
	H	acyl	NH ₂	SH	OH
	H	acyl	NH ₂	SH	OMe
	H	acyl	NH ₂	SH	OEt
	H	acyl	NH ₂	SH	O-cyclopropyl
	H	acyl	NH ₂	SH	O-acetyl
	H	acyl	NH ₂	SH	SH
60	H	acyl	NH ₂	SH	SMe
	H	acyl	NH ₂	SH	SEt
	H	acyl	NH ₂	SH	S-cyclopropyl
	H	acyl	NH ₂	SH	F
	H	acyl	NH ₂	SH	Cl
	H	acyl	NH ₂	SH	Br
65	H	acyl	NH ₂	SH	I
	H	amino acid	NH ₂	SH	H

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
H	amino acid	NH ₂	SH	NH ₂
H	amino acid	NH ₂	SH	NH-cyclopropyl
H	amino acid	NH ₂	SH	NH-methyl
H	amino acid	NH ₂	SH	NH-ethyl
H	amino acid	NH ₂	SH	NH-acetyl
H	amino acid	NH ₂	SH	OH
H	amino acid	NH ₂	SH	OMe
H	amino acid	NH ₂	SH	OEt
H	amino acid	NH ₂	SH	O-cyclopropyl
H	amino acid	NH ₂	SH	O-acetyl
H	amino acid	NH ₂	SH	SH
H	amino acid	NH ₂	SH	SMe
H	amino acid	NH ₂	SH	SEt
H	amino acid	NH ₂	SH	S-cyclopropyl
H	amino acid	NH ₂	SH	F
H	amino acid	NH ₂	SH	Cl
H	amino acid	NH ₂	SH	Br
H	amino acid	NH ₂	SH	I
H	amino acid	NH ₂	SH	H
amino acid	amino acid	NH ₂	SH	NH ₂
amino acid	amino acid	NH ₂	SH	NH-cyclopropyl
amino acid	amino acid	NH ₂	SH	NH-methyl
amino acid	amino acid	NH ₂	SH	NH-ethyl
amino acid	amino acid	NH ₂	SH	NH-acetyl
amino acid	amino acid	NH ₂	SH	OH
amino acid	amino acid	NH ₂	SH	OMe
amino acid	amino acid	NH ₂	SH	OEt
amino acid	amino acid	NH ₂	SH	O-cyclopropyl
amino acid	amino acid	NH ₂	SH	O-acetyl
amino acid	amino acid	NH ₂	SH	SH
amino acid	amino acid	NH ₂	SH	SMe
amino acid	amino acid	NH ₂	SH	SEt
amino acid	amino acid	NH ₂	SH	S-cyclopropyl
amino acid	amino acid	NH ₂	SH	F
amino acid	amino acid	NH ₂	SH	Cl
amino acid	amino acid	NH ₂	SH	Br
amino acid	amino acid	NH ₂	SH	I
amino acid	amino acid	NH ₂	SH	H
amino acid	H	NH ₂	SH	H
amino acid	H	NH ₂	SH	NH ₂
amino acid	H	NH ₂	SH	NH-cyclopropyl
amino acid	H	NH ₂	SH	NH-methyl
amino acid	H	NH ₂	SH	NH-ethyl
amino acid	H	NH ₂	SH	NH-acetyl
amino acid	H	NH ₂	SH	OH
amino acid	H	NH ₂	SH	OMe
amino acid	H	NH ₂	SH	OEt
amino acid	H	NH ₂	SH	O-cyclopropyl
amino acid	H	NH ₂	SH	O-acetyl
amino acid	H	NH ₂	SH	SH
amino acid	H	NH ₂	SH	SMe
amino acid	H	NH ₂	SH	SEt
amino acid	H	NH ₂	SH	S-cyclopropyl
amino acid	H	NH ₂	SH	F
amino acid	H	NH ₂	SH	Cl
amino acid	H	NH ₂	SH	Br
amino acid	H	NH ₂	SH	I
amino acid	H	NH ₂	SH	H
amino acid	acyl	NH ₂	SH	H
amino acid	acyl	NH ₂	SH	NH ₂
amino acid	acyl	NH ₂	SH	NH-cyclopropyl
amino acid	acyl	NH ₂	SH	NH-methyl
amino acid	acyl	NH ₂	SH	NH-ethyl
amino acid	acyl	NH ₂	SH	NH-acetyl
amino acid	acyl	NH ₂	SH	OH
amino acid	acyl	NH ₂	SH	OMe
amino acid	acyl	NH ₂	SH	OEt
amino acid	acyl	NH ₂	SH	O-cyclopropyl
amino acid	acyl	NH ₂	SH	O-acetyl
amino acid	acyl	NH ₂	SH	SH
amino acid	acyl	NH ₂	SH	SMe
amino acid	acyl	NH ₂	SH	SEt
amino acid	acyl	NH ₂	SH	S-cyclopropyl
amino acid	acyl	NH ₂	SH	F
amino acid	acyl	NH ₂	SH	Cl
amino acid	acyl	NH ₂	SH	Br
amino acid	acyl	NH ₂	SH	I
amino acid	acyl	NH ₂	SH	H
acyl	H	SH	SH	H
acyl	H	SH	SH	NH ₂

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
5	acyl	H	SH	NH-cyclopropyl
	acyl	H	SH	NH-methyl
	acyl	H	SH	NH-ethyl
	acyl	H	SH	NH-acetyl
	acyl	H	SH	OH
	acyl	H	SH	OMe
10	acyl	H	SH	OEt
	acyl	H	SH	O-cyclopropyl
	acyl	H	SH	O-acetyl
	acyl	H	SH	SH
	acyl	H	SH	SMe
	acyl	H	SH	SEt
15	acyl	H	SH	S-cyclopropyl
	acyl	H	SH	F
	acyl	H	SH	Cl
	acyl	H	SH	Br
	acyl	H	SH	I
	acyl	acyl	SH	H
20	acyl	acyl	SH	NH ₂
	acyl	acyl	SH	NH-cyclopropyl
	acyl	acyl	SH	NH-methyl
	acyl	acyl	SH	NH-ethyl
	acyl	acyl	SH	NH-acetyl
	acyl	acyl	SH	OH
	acyl	acyl	SH	OMe
25	acyl	acyl	SH	OEt
	acyl	acyl	SH	O-cyclopropyl
	acyl	acyl	SH	O-acetyl
	acyl	acyl	SH	SH
	acyl	acyl	SH	SMe
	acyl	acyl	SH	SEt
30	acyl	acyl	SH	S-cyclopropyl
	acyl	acyl	SH	F
	acyl	acyl	SH	Cl
	acyl	acyl	SH	Br
	acyl	acyl	SH	I
35	acyl	amino acid	SH	H
	acyl	amino acid	SH	NH
	acyl	amino acid	SH	NH-cyclopropyl
	acyl	amino acid	SH	NH-methyl
	acyl	amino acid	SH	NH-ethyl
	acyl	amino acid	SH	NH-acetyl
	acyl	amino acid	SH	OH
	acyl	amino acid	SH	OMe
40	acyl	amino acid	SH	OEt
	acyl	amino acid	SH	O-cyclopropyl
	acyl	amino acid	SH	O-acetyl
	acyl	amino acid	SH	SH
	acyl	amino acid	SH	SMe
	acyl	amino acid	SH	SEt
45	acyl	amino acid	SH	S-cyclopropyl
	acyl	amino acid	SH	F
	acyl	amino acid	SH	Cl
	acyl	amino acid	SH	Br
	acyl	amino acid	SH	I
	H	acyl	SH	H
50	H	acyl	SH	NH ₂
	H	acyl	SH	NH-cyclopropyl
	H	acyl	SH	NH-methyl
	H	acyl	SH	NH-ethyl
	H	acyl	SH	NH-acetyl
	H	acyl	SH	OH
	H	acyl	SH	OMe
55	H	acyl	SH	OEt
	H	acyl	SH	O-cyclopropyl
	H	acyl	SH	O-acetyl
	H	acyl	SH	SH
	H	acyl	SH	SMe
	H	acyl	SH	SEt
60	H	acyl	SH	S-cyclopropyl
	H	acyl	SH	F
	H	acyl	SH	Cl
	H	acyl	SH	Br
	H	acyl	SH	I
	H	amino acid	SH	H
65	H	amino acid	SH	NH ₂
	H	amino acid	SH	NH-cyclopropyl

TABLE 2-continued

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TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
H	amino acid	OH	SH	NH-acetyl
H	amino acid	OH	SH	OH
H	amino acid	OH	SH	OMe
H	amino acid	OH	SH	OEt
H	amino acid	OH	SH	O-cyclopropyl
H	amino acid	OH	SH	O-acetyl
H	amino acid	OH	SH	SH
H	amino acid	OH	SH	SMe
H	amino acid	OH	SH	SEt
H	amino acid	OH	SH	S-cyclopropyl
H	amino acid	OH	SH	F
H	amino acid	OH	SH	Cl
H	amino acid	OH	SH	Br
H	amino acid	OH	SH	I
amino acid	amino acid	OH	SH	H
amino acid	amino acid	OH	SH	NH ₂
amino acid	amino acid	OH	SH	NH-cyclopropyl
amino acid	amino acid	OH	SH	NH-methyl
amino acid	amino acid	OH	SH	NH-ethyl
amino acid	amino acid	OH	SH	NH-acetyl
amino acid	amino acid	OH	SH	OH
amino acid	amino acid	OH	SH	OMe
amino acid	amino acid	OH	SH	OEt
amino acid	amino acid	OH	SH	O-cyclopropyl
amino acid	amino acid	OH	SH	O-acetyl
amino acid	amino acid	OH	SH	SH
amino acid	amino acid	OH	SH	SMe
amino acid	amino acid	OH	SH	SEt
amino acid	amino acid	OH	SH	S-cyclopropyl
amino acid	amino acid	OH	SH	F
amino acid	amino acid	OH	SH	Cl
amino acid	amino acid	OH	SH	Br
amino acid	amino acid	OH	SH	I
amino acid	H	OH	SH	H
amino acid	H	OH	SH	NH ₂
amino acid	H	OH	SH	NH-cyclopropyl
amino acid	H	OH	SH	NH-methyl
amino acid	H	OH	SH	NH-ethyl
amino acid	H	OH	SH	NH-acetyl
amino acid	H	OH	SH	OH
amino acid	H	OH	SH	OMe
amino acid	H	OH	SH	OEt
amino acid	H	OH	SH	O-cyclopropyl
amino acid	H	OH	SH	O-acetyl
amino acid	H	OH	SH	SH
amino acid	H	OH	SH	SMe
amino acid	H	OH	SH	SEt
amino acid	H	OH	SH	S-cyclopropyl
amino acid	H	OH	SH	F
amino acid	H	OH	SH	Cl
amino acid	H	OH	SH	Br
amino acid	H	OH	SH	I
amino acid	acyl	OH	SH	H
amino acid	acyl	OH	SH	NH ₂
amino acid	acyl	OH	SH	NH-cyclopropyl
amino acid	acyl	OH	SH	NH-methyl
amino acid	acyl	OH	SH	NH-ethyl
amino acid	acyl	OH	SH	NH-acetyl
amino acid	acyl	OH	SH	OH
amino acid	acyl	OH	SH	OMe
amino acid	acyl	OH	SH	OEt
amino acid	acyl	OH	SH	O-cyclopropyl
amino acid	acyl	OH	SH	O-acetyl
amino acid	acyl	OH	SH	SH
amino acid	acyl	OH	SH	SMe
amino acid	acyl	OH	SH	SEt
amino acid	acyl	OH	SH	S-cyclopropyl
amino acid	acyl	OH	SH	F
amino acid	acyl	OH	SH	Cl
amino acid	acyl	OH	SH	Br
amino acid	acyl	OH	SH	I
acyl	H	CH ₃	OH	H
acyl	H	CH ₃	OH	NH ₂
acyl	H	CH ₃	OH	NH-cyclopropyl
acyl	H	CH ₃	OH	NH-methyl
acyl	H	CH ₃	OH	NH-ethyl
acyl	H	CH ₃	OH	NH-acetyl
acyl	H	CH ₃	OH	OH

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
5	acyl	H	CH ₃	OH
	acyl	H	CH ₃	OMe
	acyl	H	CH ₃	OEt
	acyl	H	CH ₃	O-cyclopropyl
	acyl	H	CH ₃	O-acetyl
	acyl	H	CH ₃	SH
10	acyl	H	CH ₃	SMe
	acyl	H	CH ₃	SEt
	acyl	H	CH ₃	S-cyclopropyl
	acyl	H	CH ₃	F
	acyl	H	CH ₃	Cl
	acyl	H	CH ₃	Br
15	acyl	H	CH ₃	I
	acyl	acyl	CH ₃	H
	acyl	acyl	CH ₃	NH ₂
	acyl	acyl	CH ₃	NH-cyclopropyl
	acyl	acyl	CH ₃	NH-methyl
	acyl	acyl	CH ₃	NH-ethyl
	acyl	acyl	CH ₃	NH-acetyl
20	acyl	acyl	CH ₃	OH
	acyl	acyl	CH ₃	OMe
	acyl	acyl	CH ₃	OEt
	acyl	acyl	CH ₃	O-cyclopropyl
	acyl	acyl	CH ₃	O-acetyl
	acyl	acyl	CH ₃	SH
25	acyl	acyl	CH ₃	SMe
	acyl	acyl	CH ₃	SEt
	acyl	acyl	CH ₃	S-cyclopropyl
	acyl	acyl	CH ₃	F
	acyl	acyl	CH ₃	Cl
	acyl	acyl	CH ₃	Br
30	acyl	acyl	CH ₃	I
	acyl	amino acid	CH ₃	H
	acyl	amino acid	CH ₃	NH ₂
	acyl	amino acid	CH ₃	NH-cyclopropyl
	acyl	amino acid	CH ₃	NH-methyl
	acyl	amino acid	CH ₃	NH-ethyl
35	acyl	amino acid	CH ₃	NH-acetyl
	acyl	amino acid	CH ₃	OH
	acyl	amino acid	CH ₃	OMe
	acyl	amino acid	CH ₃	OEt
	acyl	amino acid	CH ₃	O-cyclopropyl
	acyl	amino acid	CH ₃	O-acetyl
	acyl	amino acid	CH ₃	SH
40	acyl	amino acid	CH ₃	SMe
	acyl	amino acid	CH ₃	SEt
	acyl	amino acid	CH ₃	S-cyclopropyl
	acyl	amino acid	CH ₃	F
	acyl	amino acid	CH ₃	Cl
	acyl	amino acid	CH ₃	Br
45	acyl	amino acid	CH ₃	I
	acyl	H	CH ₃	H
	acyl	H	CH ₃	NH ₂
	acyl	H	CH ₃	NH-cyclopropyl
	acyl	H	CH ₃	NH-methyl
	acyl	H	CH ₃	NH-ethyl
50	acyl	acyl	CH ₃	NH-acetyl
	acyl	acyl	CH ₃	OH
	acyl	acyl	CH ₃	OMe
	acyl	acyl	CH ₃	OEt
	acyl	acyl	CH ₃	O-cyclopropyl
	acyl	acyl	CH ₃	O-acetyl
55	acyl	acyl	CH ₃	SH
	acyl	acyl	CH ₃	SMe
	acyl	acyl	CH ₃	SEt
	acyl	acyl	CH ₃	S-cyclopropyl
	acyl	acyl	CH ₃	F
	acyl	acyl	CH ₃	Cl
	acyl	acyl	CH ₃	Br
60	acyl	acyl	CH ₃	I
	acyl	amino acid	CH ₃	H
	acyl	amino acid	CH ₃	NH ₂
	acyl	amino acid	CH ₃	NH-cyclopropyl
	acyl	amino acid	CH ₃	NH-methyl
	acyl	amino acid	CH ₃	NH-ethyl
65	acyl	amino acid	CH ₃	NH-acetyl
	acyl	amino acid	CH ₃	OH

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
H	amino acid	CH ₃	OH	OMe
H	amino acid	CH ₃	OH	OEt
H	amino acid	CH ₃	OH	O-cyclopropyl
H	amino acid	CH ₃	OH	O-acetyl
H	amino acid	CH ₃	OH	SH
H	amino acid	CH ₃	OH	SMe
H	amino acid	CH ₃	OH	SEt
H	amino acid	CH ₃	OH	S-cyclopropyl
H	amino acid	CH ₃	OH	F
H	amino acid	CH ₃	OH	Cl
H	amino acid	CH ₃	OH	Br
H	amino acid	CH ₃	OH	I
amino acid	amino acid	CH ₃	OH	H
amino acid	amino acid	CH ₃	OH	NH ₂
amino acid	amino acid	CH ₃	OH	NH-cyclopropyl
amino acid	amino acid	CH ₃	OH	NH-methyl
amino acid	amino acid	CH ₃	OH	NH-ethyl
amino acid	amino acid	CH ₃	OH	NH-acetyl
amino acid	amino acid	CH ₃	OH	OH
amino acid	amino acid	CH ₃	OH	OMe
amino acid	amino acid	CH ₃	OH	OEt
amino acid	amino acid	CH ₃	OH	O-cyclopropyl
amino acid	amino acid	CH ₃	OH	O-acetyl
amino acid	amino acid	CH ₃	OH	SH
amino acid	amino acid	CH ₃	OH	SMe
amino acid	amino acid	CH ₃	OH	SEt
amino acid	amino acid	CH ₃	OH	S-cyclopropyl
amino acid	amino acid	CH ₃	OH	F
amino acid	amino acid	CH ₃	OH	Cl
amino acid	amino acid	CH ₃	OH	Br
amino acid	amino acid	CH ₃	OH	I
amino acid	amino acid	CH ₃	OH	H
amino acid	H	CH ₃	OH	H
amino acid	H	CH ₃	OH	NH ₂
amino acid	H	CH ₃	OH	NH-cyclopropyl
amino acid	H	CH ₃	OH	NH-methyl
amino acid	H	CH ₃	OH	NH-ethyl
amino acid	H	CH ₃	OH	NH-acetyl
amino acid	H	CH ₃	OH	OH
amino acid	H	CH ₃	OH	OMe
amino acid	H	CH ₃	OH	OEt
amino acid	H	CH ₃	OH	O-cyclopropyl
amino acid	H	CH ₃	OH	O-acetyl
amino acid	H	CH ₃	OH	SH
amino acid	H	CH ₃	OH	SMe
amino acid	H	CH ₃	OH	SEt
amino acid	H	CH ₃	OH	S-cyclopropyl
amino acid	H	CH ₃	OH	F
amino acid	H	CH ₃	OH	Cl
amino acid	H	CH ₃	OH	Br
amino acid	H	CH ₃	OH	I
amino acid	acyl	CH ₃	OH	H
amino acid	acyl	CH ₃	OH	NH ₂
amino acid	acyl	CH ₃	OH	NH-cyclopropyl
amino acid	acyl	CH ₃	OH	NH-methyl
amino acid	acyl	CH ₃	OH	NH-ethyl
amino acid	acyl	CH ₃	OH	NH-acetyl
amino acid	acyl	CH ₃	OH	OH
amino acid	acyl	CH ₃	OH	OMe
amino acid	acyl	CH ₃	OH	OEt
amino acid	acyl	CH ₃	OH	O-cyclopropyl
amino acid	acyl	CH ₃	OH	O-acetyl
amino acid	acyl	CH ₃	OH	SH
amino acid	acyl	CH ₃	OH	SMe
amino acid	acyl	CH ₃	OH	SEt
amino acid	acyl	CH ₃	OH	S-cyclopropyl
amino acid	acyl	CH ₃	OH	F
amino acid	acyl	CH ₃	OH	Cl
amino acid	acyl	CH ₃	OH	Br
amino acid	acyl	CH ₃	OH	I
acyl	H	CF ₃	OH	H
acyl	H	CF ₃	OH	NH ₂
acyl	H	CF ₃	OH	NH-cyclopropyl
acyl	H	CF ₃	OH	NH-methyl
acyl	H	CF ₃	OH	NH-ethyl
acyl	H	CF ₃	OH	NH-acetyl
acyl	H	CF ₃	OH	OH
acyl	H	CF ₃	OH	OMe
acyl	H	CF ₃	OH	OEt

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y	
5	acyl	H	CF ₃	OH	OFr
	acyl	H	CF ₃	OH	O-cyclopropyl
	acyl	H	CF ₃	OH	O-acetyl
	acyl	H	CF ₃	OH	SH
	acyl	H	CF ₃	OH	SMe
	acyl	H	CF ₃	OH	SEt
10	acyl	H	CF ₃	OH	S-cyclopropyl
	acyl	H	CF ₃	OH	F
	acyl	H	CF ₃	OH	Cl
	acyl	H	CF ₃	OH	Br
	acyl	H	CF ₃	OH	I
	acyl	H	CF ₃	OH	H
15	acyl	acyl	CF ₃	OH	NH ₂
	acyl	acyl	CF ₃	OH	NH-cyclopropyl
	acyl	acyl	CF ₃	OH	NH-methyl
	acyl	acyl	CF ₃	OH	NH-ethyl
	acyl	acyl	CF ₃	OH	NH-acetyl
	acyl	acyl	CF ₃	OH	OH
20	acyl	acyl	CF ₃	OH	OMe
	acyl	acyl	CF ₃	OH	OEt
	acyl	acyl	CF ₃	OH	O-cyclopropyl
	acyl	acyl	CF ₃	OH	O-acetyl
	acyl	acyl	CF ₃	OH	SH
	acyl	acyl	CF ₃	OH	SMe
	acyl	acyl	CF ₃	OH	SEt
25	acyl	acyl	CF ₃	OH	S-cyclopropyl
	acyl	acyl	CF ₃	OH	F
	acyl	acyl	CF ₃	OH	Cl
	acyl	acyl	CF ₃	OH	Br
	acyl	acyl	CF ₃	OH	I
	acyl	amino acid	CF ₃	OH	H
30	acyl	amino acid	CF ₃	OH	NH ₂
	acyl	amino acid	CF ₃	OH	NH-cyclopropyl
	acyl	amino acid	CF ₃	OH	NH-methyl
	acyl	amino acid	CF ₃	OH	NH-ethyl
	acyl	amino acid	CF ₃	OH	NH-acetyl
	acyl	amino acid	CF ₃	OH	OH
35	acyl	amino acid	CF ₃	OH	OMe
	acyl	amino acid	CF ₃	OH	OEt
	acyl	amino acid	CF ₃	OH	O-cyclopropyl
	acyl	amino acid	CF ₃	OH	O-acetyl
	acyl	amino acid	CF ₃	OH	SH
	acyl	amino acid	CF ₃	OH	SMe
	acyl	amino acid	CF ₃	OH	SEt
40	acyl	amino acid	CF ₃	OH	S-cyclopropyl
	acyl	amino acid	CF ₃	OH	F
	acyl	amino acid	CF ₃	OH	Cl
	acyl	amino acid	CF ₃	OH	Br
	acyl	amino acid	CF ₃	OH	I
	H	acyl	CF ₃	OH	H
45	H	acyl	CF ₃	OH	NH ₂
	H	acyl	CF ₃	OH	NH-cyclopropyl
	H	acyl	CF ₃	OH	NH-methyl
	H	acyl	CF ₃	OH	NH-ethyl
	H	acyl	CF ₃	OH	NH-acetyl
	H	acyl	CF ₃	OH	OH
50	H	acyl	CF ₃	OH	OMe
	H	acyl	CF ₃	OH	OEt
	H	acyl	CF ₃	OH	O-cyclopropyl
	H	acyl	CF ₃	OH	O-acetyl
	H	acyl	CF ₃	OH	SH
	H	acyl	CF ₃	OH	SMe
	H	acyl	CF ₃	OH	SEt
55	H	acyl	CF ₃	OH	S-cyclopropyl
	H	acyl	CF ₃	OH	F
	H	acyl	CF ₃	OH	Cl
	H	acyl	CF ₃	OH	Br
	H	acyl	CF ₃	OH	I
	H	amino acid	CF ₃	OH	H
60	H	amino acid	CF ₃	OH	NH ₂
	H	amino acid	CF ₃	OH	NH-cyclopropyl
	H	amino acid	CF ₃	OH	NH-methyl
	H	amino acid	CF ₃	OH	NH-ethyl
	H	amino acid	CF ₃	OH	NH-acetyl
	H	amino acid	CF ₃	OH	OH
65	H	amino acid	CF ₃	OH	OMe
	H	amino acid	CF ₃	OH	OEt

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
H	amino acid	CF ₃	OH	O-cyclopropyl
H	amino acid	CF ₃	OH	O-acetyl
H	amino acid	CF ₃	OH	SH
H	amino acid	CF ₃	OH	SMe
H	amino acid	CF ₃	OH	SEt
H	amino acid	CF ₃	OH	S-cyclopropyl
H	amino acid	CF ₃	OH	F
H	amino acid	CF ₃	OH	Cl
H	amino acid	CF ₃	OH	Br
H	amino acid	CF ₃	OH	I
amino acid	amino acid	CF ₃	OH	H
amino acid	amino acid	CF ₃	OH	NH ₂
amino acid	amino acid	CF ₃	OH	NH-cyclopropyl
amino acid	amino acid	CF ₃	OH	NH-methyl
amino acid	amino acid	CF ₃	OH	NH-ethyl
amino acid	amino acid	CF ₃	OH	NH-acetyl
amino acid	amino acid	CF ₃	OH	OH
amino acid	amino acid	CF ₃	OH	OMe
amino acid	amino acid	CF ₃	OH	OEt
amino acid	amino acid	CF ₃	OH	O-cyclopropyl
amino acid	amino acid	CF ₃	OH	O-acetyl
amino acid	amino acid	CF ₃	OH	SH
amino acid	amino acid	CF ₃	OH	SMe
amino acid	amino acid	CF ₃	OH	SEt
amino acid	amino acid	CF ₃	OH	S-cyclopropyl
amino acid	amino acid	CF ₃	OH	F
amino acid	amino acid	CF ₃	OH	Cl
amino acid	amino acid	CF ₃	OH	Br
amino acid	amino acid	CF ₃	OH	I
amino acid	H	CF ₃	OH	H
amino acid	H	CF ₃	OH	NH ₂
amino acid	H	CF ₃	OH	NH-cyclopropyl
amino acid	H	CF ₃	OH	NH-methyl
amino acid	H	CF ₃	OH	NH-ethyl
amino acid	H	CF ₃	OH	NH-acetyl
amino acid	H	CF ₃	OH	OH
amino acid	H	CF ₃	OH	OMe
amino acid	H	CF ₃	OH	OEt
amino acid	H	CF ₃	OH	O-cyclopropyl
amino acid	H	CF ₃	OH	O-acetyl
amino acid	H	CF ₃	OH	SH
amino acid	H	CF ₃	OH	SMe
amino acid	H	CF ₃	OH	SEt
amino acid	H	CF ₃	OH	S-cyclopropyl
amino acid	H	CF ₃	OH	F
amino acid	H	CF ₃	OH	Cl
amino acid	H	CF ₃	OH	Br
amino acid	H	CF ₃	OH	I
amino acid	H	CF ₃	OH	H
amino acid	acyl	CF ₃	OH	NH ₂
amino acid	acyl	CF ₃	OH	NH-cyclopropyl
amino acid	acyl	CF ₃	OH	NH-methyl
amino acid	acyl	CF ₃	OH	NH-ethyl
amino acid	acyl	CF ₃	OH	NH-acetyl
amino acid	acyl	CF ₃	OH	OH
amino acid	acyl	CF ₃	OH	OMe
amino acid	acyl	CF ₃	OH	OEt
amino acid	acyl	CF ₃	OH	O-cyclopropyl
amino acid	acyl	CF ₃	OH	O-acetyl
amino acid	acyl	CF ₃	OH	SH
amino acid	acyl	CF ₃	OH	SMe
amino acid	acyl	CF ₃	OH	SEt
amino acid	acyl	CF ₃	OH	S-cyclopropyl
amino acid	acyl	CF ₃	OH	F
amino acid	acyl	CF ₃	OH	Cl
amino acid	acyl	CF ₃	OH	Br
amino acid	acyl	CF ₃	OH	I
acyl	H	Br	OH	H
acyl	H	Br	OH	NH ₂
acyl	H	Br	OH	NH-cyclopropyl
acyl	H	Br	OH	NH-methyl
acyl	H	Br	OH	NH-ethyl
acyl	H	Br	OH	NH-acetyl
acyl	H	Br	OH	OH
acyl	H	Br	OH	OMe
acyl	H	Br	OH	OEt
acyl	H	Br	OH	O-cyclopropyl
acyl	H	Br	OH	O-acetyl

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
5	acyl	H	Br	O-acetyl
	acyl	H	Br	SH
	acyl	H	Br	SMe
	acyl	H	Br	SEt
	acyl	H	Br	S-cyclopropyl
	acyl	H	Br	F
10	acyl	H	Br	Cl
	acyl	H	Br	Br
	acyl	H	Br	I
	acyl	acyl	Br	H
	acyl	acyl	Br	NH ₂
	acyl	acyl	Br	NH-cyclopropyl
15	acyl	acyl	Br	NH-methyl
	acyl	acyl	Br	NH-ethyl
	acyl	acyl	Br	NH-acetyl
	acyl	acyl	Br	OH
	acyl	acyl	Br	OMe
	acyl	acyl	Br	OEt
	acyl	acyl	Br	O-cyclopropyl
20	acyl	acyl	Br	O-acetyl
	acyl	acyl	Br	SH
	acyl	acyl	Br	SMe
	acyl	acyl	Br	SEt
	acyl	acyl	Br	S-cyclopropyl
	acyl	acyl	Br	F
25	acyl	acyl	Br	Cl
	acyl	acyl	Br	Br
	acyl	acyl	Br	I
	acyl	amino acid	Br	H
	acyl	amino acid	Br	NH ₂
	acyl	amino acid	Br	NH-cyclopropyl
30	acyl	amino acid	Br	NH-methyl
	acyl	amino acid	Br	NH-ethyl
	acyl	amino acid	Br	NH-acetyl
	acyl	amino acid	Br	OH
	acyl	amino acid	Br	OMe
	acyl	amino acid	Br	OEt
35	acyl	amino acid	Br	O-cyclopropyl
	acyl	amino acid	Br	O-acetyl
	acyl	amino acid	Br	SH
	acyl	amino acid	Br	SMe
	acyl	amino acid	Br	SEt
	acyl	amino acid	Br	S-cyclopropyl
	acyl	amino acid	Br	F
40	acyl	amino acid	Br	Cl
	acyl	amino acid	Br	Br
	acyl	amino acid	Br	I
	H	acyl	Br	H
	H	acyl	Br	NH ₂
45	H	acyl	Br	NH-cyclopropyl
	H	acyl	Br	NH-methyl
	H	acyl	Br	NH-ethyl
	H	acyl	Br	NH-acetyl
	H	acyl	Br	OH
	H	acyl	Br	OMe
	H	acyl	Br	OEt
50	H	acyl	Br	O-cyclopropyl
	H	acyl	Br	O-acetyl
	H	acyl	Br	SH
	H	acyl	Br	SMe
	H	acyl	Br	SEt
	H	acyl	Br	S-cyclopropyl
55	H	acyl	Br	F
	H	acyl	Br	Cl
	H	acyl	Br	Br
	H	acyl	Br	I
	H	amino acid	Br	H
	H	amino acid	Br	NH ₂
60	H	amino acid	Br	NH-cyclopropyl
	H	amino acid	Br	NH-methyl
	H	amino acid	Br	NH-ethyl
	H	amino acid	Br	NH-acetyl
	H	amino acid	Br	OH
	H	amino acid	Br	OMe
	H	amino acid	Br	OEt
65	H	amino acid	Br	O-cyclopropyl
	H	amino acid	Br	O-acetyl

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
H	amino acid	Br	OH	SH
H	amino acid	Br	OH	SMe
H	amino acid	Br	OH	SEt
H	amino acid	Br	OH	S-cyclopropyl
H	amino acid	Br	OH	F
H	amino acid	Br	OH	Cl
H	amino acid	Br	OH	Br
H	amino acid	Br	OH	I
amino acid	amino acid	Br	OH	H
amino acid	amino acid	Br	OH	NH ₂
amino acid	amino acid	Br	OH	NH-cyclopropyl
amino acid	amino acid	Br	OH	NH-methyl
amino acid	amino acid	Br	OH	NH-ethyl
amino acid	amino acid	Br	OH	NH-acetyl
amino acid	amino acid	Br	OH	OH
amino acid	amino acid	Br	OH	OMe
amino acid	amino acid	Br	OH	OEt
amino acid	amino acid	Br	OH	O-cyclopropyl
amino acid	amino acid	Br	OH	O-acetyl
amino acid	amino acid	Br	OH	SH
amino acid	amino acid	Br	OH	SMe
amino acid	amino acid	Br	OH	SEt
amino acid	amino acid	Br	OH	S-cyclopropyl
amino acid	amino acid	Br	OH	F
amino acid	amino acid	Br	OH	Cl
amino acid	amino acid	Br	OH	Br
amino acid	amino acid	Br	OH	I
amino acid	H	Br	OH	H
amino acid	H	Br	OH	NH ₂
amino acid	H	Br	OH	NH-cyclopropyl
amino acid	H	Br	OH	NH-methyl
amino acid	H	Br	OH	NH-ethyl
amino acid	H	Br	OH	NH-acetyl
amino acid	H	Br	OH	OH
amino acid	H	Br	OH	OMe
amino acid	H	Br	OH	OEt
amino acid	H	Br	OH	O-cyclopropyl
amino acid	H	Br	OH	O-acetyl
amino acid	H	Br	OH	SH
amino acid	H	Br	OH	SMe
amino acid	H	Br	OH	SEt
amino acid	H	Br	OH	S-cyclopropyl
amino acid	H	Br	OH	F
amino acid	H	Br	OH	Cl
amino acid	H	Br	OH	Br
amino acid	H	Br	OH	I
amino acid	acyl	Br	OH	H
amino acid	acyl	Br	OH	NH ₂
amino acid	acyl	Br	OH	NH-cyclopropyl
amino acid	acyl	Br	OH	NH-methyl
amino acid	acyl	Br	OH	NH-ethyl
amino acid	acyl	Br	OH	NH-acetyl
amino acid	acyl	Br	OH	OH
amino acid	acyl	Br	OH	OMe
amino acid	acyl	Br	OH	OEt
amino acid	acyl	Br	OH	O-cyclopropyl
amino acid	acyl	Br	OH	O-acetyl
amino acid	acyl	Br	OH	SH
amino acid	acyl	Br	OH	SMe
amino acid	acyl	Br	OH	SEt
amino acid	acyl	Br	OH	S-cyclopropyl
amino acid	acyl	Br	OH	F
amino acid	acyl	Br	OH	Cl
amino acid	acyl	Br	OH	Br
amino acid	acyl	Br	OH	I
acyl	H	Cl	OH	H
acyl	H	Cl	OH	NH ₂
acyl	H	Cl	OH	NH-cyclopropyl
acyl	H	Cl	OH	NH-methyl
acyl	H	Cl	OH	NH-ethyl
acyl	H	Cl	OH	NH-acetyl
acyl	H	Cl	OH	OH
acyl	H	Cl	OH	OMe
acyl	H	Cl	OH	OEt
acyl	H	Cl	OH	O-cyclopropyl
acyl	H	Cl	OH	O-acetyl
acyl	H	Cl	OH	SH
acyl	H	Cl	OH	SMe
acyl	H	Cl	OH	SEt
acyl	H	Cl	OH	S-cyclopropyl
acyl	H	Cl	OH	F
acyl	H	Cl	OH	Cl
acyl	H	Cl	OH	Br
acyl	H	Cl	OH	I
acyl	H	Cl	OH	SH

TABLE 2-continued

	R ²	R ³	X ¹	X ²	Y
5	acyl	H	Cl	OH	SMe
	acyl	H	Cl	OH	SEt
	acyl	H	Cl	OH	S-cyclopropyl
	acyl	H	Cl	OH	F
	acyl	H	Cl	OH	Cl
	acyl	H	Cl	OH	Br
10	acyl	H	Cl	OH	I
	acyl	acyl	Cl	OH	H
	acyl	acyl	Cl	OH	NH ₂
	acyl	acyl	Cl	OH	NH-cyclopropyl
	acyl	acyl	Cl	OH	NH-methyl
	acyl	acyl	Cl	OH	NH-ethyl
15	acyl	acyl	Cl	OH	NH-acetyl
	acyl	acyl	Cl	OH	OH
	acyl	acyl	Cl	OH	OMe
	acyl	acyl	Cl	OH	OFt
	acyl	acyl	Cl	OH	O-cyclopropyl
	acyl	acyl	Cl	OH	O-acetyl
20	acyl	acyl	Cl	OH	SH
	acyl	acyl	Cl	OH	SMe
	acyl	acyl	Cl	OH	SEt
	acyl	acyl	Cl	OH	S-cyclopropyl
	acyl	acyl	Cl	OH	F
	acyl	acyl	Cl	OH	Cl
	acyl	acyl	Cl	OH	Br
25	acyl	acyl	Cl	OH	I
	acyl	amino acid	Cl	OH	H
	acyl	amino acid	Cl	OH	NH ₂
	acyl	amino acid	Cl	OH	NH-cyclopropyl
	acyl	amino acid	Cl	OH	NH-methyl
	acyl	amino acid	Cl	OH	NH-ethyl
30	acyl	amino acid	Cl	OH	NH-acetyl
	acyl	amino acid	Cl	OH	OH
	acyl	amino acid	Cl	OH	OMe
	acyl	amino acid	Cl	OH	OFt
	acyl	amino acid	Cl	OH	O-cyclopropyl
	acyl	amino acid	Cl	OH	O-acetyl
35	acyl	amino acid	Cl	OH	SH
	acyl	amino acid	Cl	OH	SMe
	acyl	amino acid	Cl	OH	SEt
	acyl	amino acid	Cl	OH	S-cyclopropyl
	acyl	amino acid	Cl	OH	F
	acyl	amino acid	Cl	OH	Cl
	acyl	amino acid	Cl	OH	Br
40	acyl	amino acid	Cl	OH	I
	H	acyl	Cl	OH	H
	H	acyl	Cl	OH	NH ₂
	H	acyl	Cl	OH	NH-cyclopropyl
	H	acyl	Cl	OH	NH-methyl
	H	acyl	Cl	OH	NH-ethyl
45	H	acyl	Cl	OH	NH-acetyl
	H	acyl	Cl	OH	OH
	H	acyl	Cl	OH	OMe
	H	acyl	Cl	OH	OFt
	H	acyl	Cl	OH	O-cyclopropyl
	H	acyl	Cl	OH	O-acetyl
50	H	acyl	Cl	OH	SH
	H	acyl	Cl	OH	SMe
	H	acyl	Cl	OH	SEt
	H	acyl	Cl	OH	S-cyclopropyl
	H	acyl	Cl	OH	F
	H	acyl	Cl	OH	Cl
	H	acyl	Cl	OH	Br
55	H	acyl	Cl	OH	I
	H	acyl	Cl	OH	H
	H	amino acid	Cl	OH	NH ₂
	H	amino acid	Cl	OH	NH-cyclopropyl
	H	amino acid	Cl	OH	NH-methyl
	H	amino acid	Cl	OH	NH-ethyl
60	H	amino acid	Cl	OH	NH-acetyl
	H	amino acid	Cl	OH	OH
	H	amino acid	Cl	OH	OMe
	H	amino acid	Cl	OH	OFt
	H	amino acid	Cl	OH	O-cyclopropyl
	H	amino acid	Cl	OH	O-acetyl
65	H	amino acid	Cl	OH	SH
	H	amino acid	Cl	OH	SMe

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
H	amino acid	Cl	OH	SEt
H	amino acid	Cl	OH	S-cyclopropyl
H	amino acid	Cl	OH	F
H	amino acid	Cl	OH	Cl
H	amino acid	Cl	OH	Br
H	amino acid	Cl	OH	I
amino acid	amino acid	Cl	OH	H
amino acid	amino acid	Cl	OH	NH ₂
amino acid	amino acid	Cl	OH	NH-cyclopropyl
amino acid	amino acid	Cl	OH	NH-methyl
amino acid	amino acid	Cl	OH	NH-ethyl
amino acid	amino acid	Cl	OH	NH-acetyl
amino acid	amino acid	Cl	OH	OH
amino acid	amino acid	Cl	OH	OMe
amino acid	amino acid	Cl	OH	OEt
amino acid	amino acid	Cl	OH	O-cyclopropyl
amino acid	amino acid	Cl	OH	O-acetyl
amino acid	amino acid	Cl	OH	SH
amino acid	amino acid	Cl	OH	SMe
amino acid	amino acid	Cl	OH	SEt
amino acid	amino acid	Cl	OH	S-cyclopropyl
amino acid	amino acid	Cl	OH	F
amino acid	amino acid	Cl	OH	Cl
amino acid	amino acid	Cl	OH	Br
amino acid	amino acid	Cl	OH	I
amino acid	H	Cl	OH	H
amino acid	H	Cl	OH	NH ₂
amino acid	H	Cl	OH	NH-cyclopropyl
amino acid	H	Cl	OH	NH-methyl
amino acid	H	Cl	OH	NH-ethyl
amino acid	H	Cl	OH	NH-acetyl
amino acid	H	Cl	OH	OH
amino acid	H	Cl	OH	OMe
amino acid	H	Cl	OH	OEt
amino acid	H	Cl	OH	O-cyclopropyl
amino acid	H	Cl	OH	O-acetyl
amino acid	H	Cl	OH	SH
amino acid	H	Cl	OH	SMe
amino acid	H	Cl	OH	SEt
amino acid	H	Cl	OH	S-cyclopropyl
amino acid	H	Cl	OH	F
amino acid	H	Cl	OH	Cl
amino acid	H	Cl	OH	Br
amino acid	H	Cl	OH	I
amino acid	acyl	Cl	OH	H
amino acid	acyl	Cl	OH	NH ₂
amino acid	acyl	Cl	OH	NH-cyclopropyl
amino acid	acyl	Cl	OH	NH-methyl
amino acid	acyl	Cl	OH	NH-ethyl
amino acid	acyl	Cl	OH	NH-acetyl
amino acid	acyl	Cl	OH	OH
amino acid	acyl	Cl	OH	OMe
amino acid	acyl	Cl	OH	OEt
amino acid	acyl	Cl	OH	O-cyclopropyl
amino acid	acyl	Cl	OH	O-acetyl
amino acid	acyl	Cl	OH	SH
amino acid	acyl	Cl	OH	SMe
amino acid	acyl	Cl	OH	SEt
amino acid	acyl	Cl	OH	S-cyclopropyl
amino acid	acyl	Cl	OH	F
amino acid	acyl	Cl	OH	Cl
amino acid	acyl	Cl	OH	Br
amino acid	acyl	Cl	OH	I
acyl	H	F	OH	H
acyl	H	F	OH	NH ₂
acyl	H	F	OH	NH-cyclopropyl
acyl	H	F	OH	NH-methyl
acyl	H	F	OH	NH-ethyl
acyl	H	F	OH	NH-acetyl
acyl	H	F	OH	OH
acyl	H	F	OH	OMe
acyl	H	F	OH	OEt
acyl	H	F	OH	O-cyclopropyl
acyl	H	F	OH	O-acetyl
acyl	H	F	OH	SH
acyl	H	F	OH	SMe
acyl	H	F	OH	SEt

TABLE 2-continued

	R ²	R ³	X ¹	X ²	Y
5	acyl	H	F	OH	S-cyclopropyl
	acyl	H	F	OH	F
	acyl	H	F	OH	Cl
	acyl	H	F	OH	Br
	acyl	H	F	OH	I
10	acyl	acyl	F	OH	H
	acyl	acyl	F	OH	NH ₂
	acyl	acyl	F	OH	NH-cyclopropyl
	acyl	acyl	F	OH	NH-methyl
	acyl	acyl	F	OH	NH-ethyl
15	acyl	acyl	F	OH	NH-acetyl
	acyl	acyl	F	OH	OMe
	acyl	acyl	F	OH	OEt
	acyl	acyl	F	OH	O-cyclopropyl
	acyl	acyl	F	OH	O-acetyl
20	acyl	acyl	F	OH	SH
	acyl	acyl	F	OH	SMe
	acyl	acyl	F	OH	SEt
	acyl	acyl	F	OH	S-cyclopropyl
	acyl	acyl	F	OH	F
25	acyl	acyl	F	OH	Cl
	acyl	acyl	F	OH	Br
	acyl	acyl	F	OH	I
	acyl	amino acid	F	OH	H
	acyl	amino acid	F	OH	NH ₂
30	acyl	amino acid	F	OH	NH-cyclopropyl
	acyl	amino acid	F	OH	NH-methyl
	acyl	amino acid	F	OH	NH-ethyl
	acyl	amino acid	F	OH	NH-acetyl
	acyl	amino acid	F	OH	OH
35	acyl	amino acid	F	OH	OMe
	acyl	amino acid	F	OH	OEt
	acyl	amino acid	F	OH	O-cyclopropyl
	acyl	amino acid	F	OH	O-acetyl
	acyl	amino acid	F	OH	SH
40	acyl	amino acid	F	OH	SMe
	acyl	amino acid	F	OH	SEt
	acyl	amino acid	F	OH	S-cyclopropyl
	acyl	amino acid	F	OH	F
	acyl	amino acid	F	OH	Cl
45	acyl	amino acid	F	OH	Br
	acyl	amino acid	F	OH	I
	H	acyl	F	OH	H
	H	acyl	F	OH	NH ₂
	H	acyl	F	OH	NH-cyclopropyl
50	H	acyl	F	OH	NH-methyl
	H	acyl	F	OH	NH-ethyl
	H	acyl	F	OH	NH-acetyl
	H	acyl	F	OH	OH
	H	acyl	F	OH	OMe
55	H	acyl	F	OH	OEt
	H	acyl	F	OH	O-cyclopropyl
	H	acyl	F	OH	O-acetyl
	H	acyl	F	OH	SH
	H	acyl	F	OH	SMe
60	H	acyl	F	OH	SEt
	H	acyl	F	OH	S-cyclopropyl
	H	acyl	F	OH	F
	H	acyl	F	OH	Cl
	H	acyl	F	OH	Br
65	H	acyl	F	OH	I
	H	amino acid	F	OH	H
	H	amino acid	F	OH	NH ₂
	H	amino acid	F	OH	NH-cyclopropyl
	H	amino acid	F	OH	NH-methyl

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
H	amino acid	F	OH	F
H	amino acid	F	OH	Cl
H	amino acid	F	OH	Br
H	amino acid	F	OH	I
amino acid	amino acid	F	OH	H
amino acid	amino acid	F	OH	NH ₂
amino acid	amino acid	F	OH	NH-cyclopropyl
amino acid	amino acid	F	OH	NH-methyl
amino acid	amino acid	F	OH	NH-ethyl
amino acid	amino acid	F	OH	NH-acetyl
amino acid	amino acid	F	OH	OH
amino acid	amino acid	F	OH	OMe
amino acid	amino acid	F	OH	OEt
amino acid	amino acid	F	OH	O-cyclopropyl
amino acid	amino acid	F	OH	O-acetyl
amino acid	amino acid	F	OH	SH
amino acid	amino acid	F	OH	SMe
amino acid	amino acid	F	OH	SEt
amino acid	amino acid	F	OH	S-cyclopropyl
amino acid	amino acid	F	OH	F
amino acid	amino acid	F	OH	Cl
amino acid	amino acid	F	OH	Br
amino acid	amino acid	F	OH	I
amino acid	H	F	OH	H
amino acid	H	F	OH	NH ₂
amino acid	H	F	OH	NH-cyclopropyl
amino acid	H	F	OH	NH-methyl
amino acid	H	F	OH	NH-ethyl
amino acid	H	F	OH	NH-acetyl
amino acid	H	F	OH	OH
amino acid	H	F	OH	OMe
amino acid	H	F	OH	OEt
amino acid	H	F	OH	O-cyclopropyl
amino acid	H	F	OH	O-acetyl
amino acid	H	F	OH	SH
amino acid	H	F	OH	SMe
amino acid	H	F	OH	SEt
amino acid	H	F	OH	S-cyclopropyl
amino acid	H	F	OH	F
amino acid	H	F	OH	Cl
amino acid	H	F	OH	Br
amino acid	H	F	OH	I
amino acid	acyl	F	OH	H
amino acid	acyl	F	OH	NH ₂
amino acid	acyl	F	OH	NH-cyclopropyl
amino acid	acyl	F	OH	NH-methyl
amino acid	acyl	F	OH	NH-ethyl
amino acid	acyl	F	OH	NH-acetyl
amino acid	acyl	F	OH	OH
amino acid	acyl	F	OH	OMe
amino acid	acyl	F	OH	OEt
amino acid	acyl	F	OH	O-cyclopropyl
amino acid	acyl	F	OH	O-acetyl
amino acid	acyl	F	OH	SH
amino acid	acyl	F	OH	SMe
amino acid	acyl	F	OH	SEt
amino acid	acyl	F	OH	S-cyclopropyl
amino acid	acyl	F	OH	F
amino acid	acyl	F	OH	Cl
amino acid	acyl	F	OH	Br
amino acid	acyl	F	OH	I
acyl	H	NH ₂	OH	H
acyl	H	NH ₂	OH	NH ₂
acyl	H	NH ₂	OH	NH-cyclopropyl
acyl	H	NH ₂	OH	NH-methyl
acyl	H	NH ₂	OH	NH-ethyl
acyl	H	NH ₂	OH	NH-acetyl
acyl	H	NH ₂	OH	OH
acyl	H	NH ₂	OH	OMe
acyl	H	NH ₂	OH	OEt
acyl	H	NH ₂	OH	O-cyclopropyl
acyl	H	NH ₂	OH	O-acetyl
acyl	H	NH ₂	OH	SH
acyl	H	NH ₂	OH	SMe
acyl	H	NH ₂	OH	SEt
acyl	H	NH ₂	OH	S-cyclopropyl
acyl	H	NH ₂	OH	F

TABLE 2-continued

	R ²	R ³	X ¹	X ²	Y
5	acyl	H	NH ₂	OH	Cl
	acyl	H	NH ₂	OH	Br
	acyl	H	NH ₂	OH	I
	acyl	acyl	NH ₂	OH	H
	acyl	acyl	NH ₂	OH	NH ₂
	acyl	acyl	NH ₂	OH	NH-cyclopropyl
10	acyl	acyl	NH ₂	OH	NH-methyl
	acyl	acyl	NH ₂	OH	NH-ethyl
	acyl	acyl	NH ₂	OH	NH-acetyl
	acyl	acyl	NH ₂	OH	OH
	acyl	acyl	NH ₂	OH	OMe
	acyl	acyl	NH ₂	OH	OEt
15	acyl	acyl	NH ₂	OH	O-cyclopropyl
	acyl	acyl	NH ₂	OH	O-acetyl
	acyl	acyl	NH ₂	OH	SH
	acyl	acyl	NH ₂	OH	SMe
	acyl	acyl	NH ₂	OH	SEt
	acyl	acyl	NH ₂	OH	S-cyclopropyl
20	acyl	acyl	NH ₂	OH	F
	acyl	acyl	NH ₂	OH	Cl
	acyl	acyl	NH ₂	OH	Br
	acyl	acyl	NH ₂	OH	I
	acyl	amino acid	NH ₂	OH	H
	acyl	amino acid	NH ₂	OH	NH ₂
25	acyl	amino acid	NH ₂	OH	NH-cyclopropyl
	acyl	amino acid	NH ₂	OH	NH-methyl
	acyl	amino acid	NH ₂	OH	NH-ethyl
	acyl	amino acid	NH ₂	OH	NH-acetyl
	acyl	amino acid	NH ₂	OH	OH
	acyl	amino acid	NH ₂	OH	OMe
	acyl	amino acid	NH ₂	OH	OEt
30	acyl	amino acid	NH ₂	OH	O-cyclopropyl
	acyl	amino acid	NH ₂	OH	O-acetyl
	acyl	amino acid	NH ₂	OH	SH
	acyl	amino acid	NH ₂	OH	SMe
	acyl	amino acid	NH ₂	OH	SEt
	acyl	amino acid	NH ₂	OH	S-cyclopropyl
35	acyl	amino acid	NH ₂	OH	F
	acyl	amino acid	NH ₂	OH	Cl
	acyl	amino acid	NH ₂	OH	Br
	acyl	amino acid	NH ₂	OH	I
	H	acyl	NH ₂	OH	H
	H	acyl	NH ₂	OH	NH ₂
40	H	acyl	NH ₂	OH	NH-cyclopropyl
	H	acyl	NH ₂	OH	NH-methyl
	H	acyl	NH ₂	OH	NH-ethyl
	H	acyl	NH ₂	OH	NH-acetyl
	H	acyl	NH ₂	OH	OH
	H	acyl	NH ₂	OH	OMe
	H	acyl	NH ₂	OH	OEt
45	H	acyl	NH ₂	OH	O-cyclopropyl
	H	acyl	NH ₂	OH	O-acetyl
	H	acyl	NH ₂	OH	SH
	H	acyl	NH ₂	OH	SMe
	H	acyl	NH ₂	OH	SEt
	H	acyl	NH ₂	OH	S-cyclopropyl
50	H	acyl	NH ₂	OH	F
	H	acyl	NH ₂	OH	Cl
	H	acyl	NH ₂	OH	Br
	H	acyl	NH ₂	OH	I
	H	amino acid	NH ₂	OH	H
	H	amino acid	NH ₂	OH	NH ₂
55	H	amino acid	NH ₂	OH	NH-cyclopropyl
	H	amino acid	NH ₂	OH	NH-methyl
	H	amino acid	NH ₂	OH	NH-ethyl
	H	amino acid	NH ₂	OH	NH-acetyl
	H	amino acid	NH ₂	OH	OH
	H	amino acid	NH ₂	OH	OMe
	H	amino acid	NH ₂	OH	OEt
60	H	amino acid	NH ₂	OH	O-cyclopropyl
	H	amino acid	NH ₂	OH	O-acetyl
	H	amino acid	NH ₂	OH	SH
	H	amino acid	NH ₂	OH	SMe
	H	amino acid	NH ₂	OH	SEt
	H	amino acid	NH ₂	OH	S-cyclopropyl
65	H	amino acid	NH ₂	OH	F
	H	amino acid	NH ₂	OH	Cl

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
H	amino acid	NH ₂	OH	Br
H	amino acid	NH ₂	OH	I
amino acid	amino acid	NH ₂	OH	H
amino acid	amino acid	NH ₂	OH	NH ₂
amino acid	amino acid	NH ₂	OH	NH-cyclopropyl
amino acid	amino acid	NH ₂	OH	NH-methyl
amino acid	amino acid	NH ₂	OH	NH-ethyl
amino acid	amino acid	NH ₂	OH	NH-acetyl
amino acid	amino acid	NH ₂	OH	OH
amino acid	amino acid	NH ₂	OH	OMe
amino acid	amino acid	NH ₂	OH	OEt
amino acid	amino acid	NH ₂	OH	O-cyclopropyl
amino acid	amino acid	NH ₂	OH	O-acetyl
amino acid	amino acid	NH ₂	OH	SH
amino acid	amino acid	NH ₂	OH	SMe
amino acid	amino acid	NH ₂	OH	SEt
amino acid	amino acid	NH ₂	OH	S-cyclopropyl
amino acid	amino acid	NH ₂	OH	F
amino acid	amino acid	NH ₂	OH	Cl
amino acid	amino acid	NH ₂	OH	Br
amino acid	amino acid	NH ₂	OH	I
amino acid	amino acid	NH ₂	OH	H
amino acid	H	NH ₂	OH	NH ₂
amino acid	H	NH ₂	OH	NH-cyclopropyl
amino acid	H	NH ₂	OH	NH-methyl
amino acid	H	NH ₂	OH	NH-ethyl
amino acid	H	NH ₂	OH	NH-acetyl
amino acid	H	NH ₂	OH	OH
amino acid	H	NH ₂	OH	OMe
amino acid	H	NH ₂	OH	OEt
amino acid	H	NH ₂	OH	O-cyclopropyl
amino acid	H	NH ₂	OH	O-acetyl
amino acid	H	NH ₂	OH	SH
amino acid	H	NH ₂	OH	SMe
amino acid	H	NH ₂	OH	SEt
amino acid	H	NH ₂	OH	S-cyclopropyl
amino acid	H	NH ₂	OH	F
amino acid	H	NH ₂	OH	Cl
amino acid	H	NH ₂	OH	Br
amino acid	H	NH ₂	OH	I
amino acid	H	NH ₂	OH	H
amino acid	acyl	NH ₂	OH	H
amino acid	acyl	NH ₂	OH	NH ₂
amino acid	acyl	NH ₂	OH	NH-cyclopropyl
amino acid	acyl	NH ₂	OH	NH-methyl
amino acid	acyl	NH ₂	OH	NH-ethyl
amino acid	acyl	NH ₂	OH	NH-acetyl
amino acid	acyl	NH ₂	OH	OH
amino acid	acyl	NH ₂	OH	OMe
amino acid	acyl	NH ₂	OH	OEt
amino acid	acyl	NH ₂	OH	O-cyclopropyl
amino acid	acyl	NH ₂	OH	O-acetyl
amino acid	acyl	NH ₂	OH	SH
amino acid	acyl	NH ₂	OH	SMe
amino acid	acyl	NH ₂	OH	SEt
amino acid	acyl	NH ₂	OH	S-cyclopropyl
amino acid	acyl	NH ₂	OH	F
amino acid	acyl	NH ₂	OH	Cl
amino acid	acyl	NH ₂	OH	Br
amino acid	acyl	NH ₂	OH	I
acyl	H	SH	OH	H
acyl	H	SH	OH	NH ₂
acyl	H	SH	OH	NH-cyclopropyl
acyl	H	SH	OH	NH-methyl
acyl	H	SH	OH	NH-ethyl
acyl	H	SH	OH	NH-acetyl
acyl	H	SH	OH	OH
acyl	H	SH	OH	OMe
acyl	H	SH	OH	OEt
acyl	H	SH	OH	O-cyclopropyl
acyl	H	SH	OH	O-acetyl
acyl	H	SH	OH	SH
acyl	H	SH	OH	SMe
acyl	H	SH	OH	SEt
acyl	H	SH	OH	S-cyclopropyl
acyl	H	SH	OH	F
acyl	H	SH	OH	Cl
acyl	H	SH	OH	Br
acyl	H	SH	OH	I

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
5	acyl	H	SH	I
	acyl	acyl	SH	H
	acyl	acyl	SH	NH ₂
	acyl	acyl	SH	NH-cyclopropyl
	acyl	acyl	SH	NH-methyl
	acyl	acyl	SH	NH-ethyl
10	acyl	acyl	SH	NH-I-acetyl
	acyl	acyl	SH	OH
	acyl	acyl	SH	OMe
	acyl	acyl	SH	OEt
	acyl	acyl	SH	O-cyclopropyl
	acyl	acyl	SH	O-acetyl
15	acyl	acyl	SH	SH
	acyl	acyl	SH	SMe
	acyl	acyl	SH	SEt
	acyl	acyl	SH	S-cyclopropyl
	acyl	acyl	SH	F
	acyl	acyl	SH	Cl
20	acyl	acyl	SH	Br
	acyl	acyl	SH	I
	acyl	amino acid	SH	H
	acyl	amino acid	SH	NH ₂
	acyl	amino acid	SH	NH-cyclopropyl
	acyl	amino acid	SH	NH-methyl
	acyl	amino acid	SH	NH-ethyl
25	acyl	amino acid	SH	NH-acetyl
	acyl	amino acid	SH	OH
	acyl	amino acid	SH	OMe
	acyl	amino acid	SH	OEt
	acyl	amino acid	SH	O-cyclopropyl
	acyl	amino acid	SH	O-acetyl
30	acyl	amino acid	SH	SH
	acyl	amino acid	SH	SMe
	acyl	amino acid	SH	SEt
	acyl	amino acid	SH	S-cyclopropyl
	acyl	amino acid	SH	F
	acyl	amino acid	SH	Cl
35	acyl	amino acid	SH	Br
	acyl	amino acid	SH	I
	H	acyl	SH	H
	H	acyl	SH	NH ₂
	H	acyl	SH	NH-cyclopropyl
	H	acyl	SH	NH-methyl
	H	acyl	SH	NH-ethyl
40	H	acyl	SH	NH-acetyl
	H	acyl	SH	OH
	H	acyl	SH	OMe
	H	acyl	SH	OEt
	H	acyl	SH	O-cyclopropyl
	H	acyl	SH	O-acetyl
45	H	acyl	SH	SH
	H	acyl	SH	SMe
	H	acyl	SH	SEt
	H	acyl	SH	S-cyclopropyl
	H	acyl	SH	F
	H	acyl	SH	Cl
50	H	acyl	SH	Br
	H	acyl	SH	I
	H	amino acid	SH	H
	H	amino acid	SH	NH ₂
	H	amino acid	SH	NH-cyclopropyl
	H	amino acid	SH	NH-methyl
55	H	amino acid	SH	NH-ethyl
	H	amino acid	SH	NH-acetyl
	H	amino acid	SH	OH
	H	amino acid	SH	OMe
	H	amino acid	SH	OEt
	H	amino acid	SH	O-cyclopropyl
	H	amino acid	SH	O-acetyl
60	H	amino acid	SH	SH
	H	amino acid	SH	SMe
	H	amino acid	SH	SEt
	H	amino acid	SH	S-cyclopropyl
	H	amino acid	SH	F
	H	amino acid	SH	Cl
65	H	amino acid	SH	Br
	H	amino acid	SH	I

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TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
amino acid	amino acid	SH	OH	H
amino acid	amino acid	SH	OH	NH ₂
amino acid	amino acid	SH	OH	NH-cyclopropyl
amino acid	amino acid	SH	OH	NH-methyl
amino acid	amino acid	SH	OH	NH-ethyl
amino acid	amino acid	SH	OH	NH-acetyl
amino acid	amino acid	SH	OH	OH
amino acid	amino acid	SH	OH	OMe
amino acid	amino acid	SH	OH	OEt
amino acid	amino acid	SH	OH	O-cyclopropyl
amino acid	amino acid	SH	OH	O-acetyl
amino acid	amino acid	SH	OH	SH
amino acid	amino acid	SH	OH	SMe
amino acid	amino acid	SH	OH	SEt
amino acid	amino acid	SH	OH	S-cyclopropyl
amino acid	amino acid	SH	OH	F
amino acid	amino acid	SH	OH	Cl
amino acid	amino acid	SH	OH	Br
amino acid	amino acid	SH	OH	I
amino acid	H	SH	OH	H
amino acid	H	SH	OH	NH ₂
amino acid	H	SH	OH	NH-cyclopropyl
amino acid	H	SH	OH	NH-methyl
amino acid	H	SH	OH	NH-ethyl
amino acid	H	SH	OH	NH-acetyl
amino acid	H	SH	OH	OH
amino acid	H	SH	OH	OMe
amino acid	H	SH	OH	OEt
amino acid	H	SH	OH	O-cyclopropyl
amino acid	H	SH	OH	O-acetyl
amino acid	H	SH	OH	SH
amino acid	H	SH	OH	SMe
amino acid	H	SH	OH	SEt
amino acid	H	SH	OH	S-cyclopropyl
amino acid	H	SH	OH	F
amino acid	H	SH	OH	Cl
amino acid	H	SH	OH	Br
amino acid	H	SH	OH	I
amino acid	acyl	SH	OH	H
amino acid	acyl	SH	OH	NH ₂
amino acid	acyl	SH	OH	NH-cyclopropyl
amino acid	acyl	SH	OH	NH-methyl
amino acid	acyl	SH	OH	NH-ethyl
amino acid	acyl	SH	OH	NH-acetyl
amino acid	acyl	SH	OH	OH
amino acid	acyl	SH	OH	OMe
amino acid	acyl	SH	OH	OEt
amino acid	acyl	SH	OH	O-cyclopropyl
amino acid	acyl	SH	OH	O-acetyl
amino acid	acyl	SH	OH	SH
amino acid	acyl	SH	OH	SMe
amino acid	acyl	SH	OH	SEt
amino acid	acyl	SH	OH	S-cyclopropyl
amino acid	acyl	SH	OH	F
amino acid	acyl	SH	OH	Cl
amino acid	acyl	SH	OH	Br
amino acid	acyl	SH	OH	I
acyl	H	OH	OH	H
acyl	H	OH	OH	NH ₂
acyl	H	OH	OH	NH-cyclopropyl
acyl	H	OH	OH	NH-methyl
acyl	H	OH	OH	NH-ethyl
acyl	H	OH	OH	NH-acetyl
acyl	H	OH	OH	OH
acyl	H	OH	OH	OMe
acyl	H	OH	OH	OEt
acyl	H	OH	OH	O-cyclopropyl
acyl	H	OH	OH	O-acetyl
acyl	H	OH	OH	SH
acyl	H	OH	OH	SMe
acyl	H	OH	OH	SEt
acyl	H	OH	OH	S-cyclopropyl
acyl	H	OH	OH	F
acyl	H	OH	OH	Cl
acyl	H	OH	OH	Br
acyl	H	OH	OH	I
acyl	acyl	OH	OH	H

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TABLE 2-continued

	R ²	R ³	X ¹	X ²	Y
5	acyl	acyl	OH	OH	NH ₂
	acyl	acyl	OH	OH	NH-cyclopropyl
	acyl	acyl	OH	OH	NH-methyl
	acyl	acyl	OH	OH	NH-ethyl
	acyl	acyl	OH	OH	NH-acetyl
	acyl	acyl	OH	OH	OH
10	acyl	acyl	OH	OH	OMe
	acyl	acyl	OH	OH	OEt
	acyl	acyl	OH	OH	O-cyclopropyl
	acyl	acyl	OH	OH	O-acetyl
	acyl	acyl	OH	OH	SH
	acyl	acyl	OH	OH	SMe
15	acyl	acyl	OH	OH	SEt
	acyl	acyl	OH	OH	S-cyclopropyl
	acyl	acyl	OH	OH	F
	acyl	acyl	OH	OH	Cl
	acyl	acyl	OH	OH	Br
	acyl	acyl	OH	OH	I
20	acyl	amino acid	OH	OH	H
	acyl	amino acid	OH	OH	NH ₂
	acyl	amino acid	OH	OH	NH-cyclopropyl
	acyl	amino acid	OH	OH	NH-methyl
	acyl	amino acid	OH	OH	NH-ethyl
	acyl	amino acid	OH	OH	NH-acetyl
25	acyl	amino acid	OH	OH	OH
	acyl	amino acid	OH	OH	OMe
	acyl	amino acid	OH	OH	OEt
	acyl	amino acid	OH	OH	O-cyclopropyl
	amino acid	amino acid	OH	OH	H
	amino acid	amino acid	OH	OH	NH ₂
	amino acid	amino acid	OH	OH	NH-cyclopropyl
30	amino acid	amino acid	OH	OH	NH-methyl
	amino acid	amino acid	OH	OH	NH-ethyl
	amino acid	amino acid	OH	OH	NH-acetyl
	amino acid	amino acid	OH	OH	OH
	amino acid	amino acid	OH	OH	OMe
	amino acid	amino acid	OH	OH	OEt
35	amino acid	amino acid	OH	OH	O-cyclopropyl
	amino acid	amino acid	OH	OH	O-acetyl
	amino acid	amino acid	OH	OH	SH
	amino acid	amino acid	OH	OH	SMe
	amino acid	amino acid	OH	OH	SEt
	amino acid	amino acid	OH	OH	S-cyclopropyl
40	amino acid	amino acid	OH	OH	F
	amino acid	amino acid	OH	OH	Cl
	amino acid	amino acid	OH	OH	Br
	amino acid	amino acid	OH	OH	I
	amino acid	H	OH	OH	H
	amino acid	H	OH	OH	NH ₂
45	amino acid	H	OH	OH	NH-cyclopropyl
	amino acid	H	OH	OH	NH-methyl
	amino acid	H	OH	OH	NH-ethyl
	amino acid	H	OH	OH	NH-acetyl
	amino acid	H	OH	OH	OH
	amino acid	H	OH	OH	OMe
	amino acid	H	OH	OH	OEt
50	amino acid	H	OH	OH	O-cyclopropyl
	amino acid	H	OH	OH	O-acetyl
	amino acid	H	OH	OH	SH
	amino acid	H	OH	OH	SMe
	amino acid	H	OH	OH	SEt
	amino acid	H	OH	OH	S-cyclopropyl
55	amino acid	H	OH	OH	F
	amino acid	H	OH	OH	Cl
	amino acid	H	OH	OH	Br
	amino acid	H	OH	OH	I
	amino acid	acyl	OH	OH	H
	amino acid	acyl	OH	OH	NH ₂
60	amino acid	acyl	OH	OH	NH-cyclopropyl
	amino acid	acyl	OH	OH	NH-methyl
	amino acid	acyl	OH	OH	NH-ethyl
	amino acid	acyl	OH	OH	NH-acetyl
	amino acid	acyl	OH	OH	OH
	amino acid	acyl	OH	OH	OMe
	amino acid	acyl	OH	OH	OEt
65	acyl	amino acid	OH	OH	O-acetyl
	acyl	amino acid	OH	OH	SH

TABLE 2-continued

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TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
amino acid	amino acid	CH ₃	H	NH-ethyl
amino acid	amino acid	CH ₃	H	NH-acetyl
amino acid	amino acid	CH ₃	H	OH
amino acid	amino acid	CH ₃	H	OMe
amino acid	amino acid	CH ₃	H	OEt
amino acid	amino acid	CH ₃	H	O-cyclopropyl
amino acid	amino acid	CH ₃	H	O-acetyl
amino acid	amino acid	CH ₃	H	SH
amino acid	amino acid	CH ₃	H	SMe
amino acid	amino acid	CH ₃	H	SEt
amino acid	amino acid	CH ₃	H	S-cyclopropyl
amino acid	amino acid	CH ₃	H	F
amino acid	amino acid	CH ₃	H	Cl
amino acid	amino acid	CH ₃	H	Br
amino acid	amino acid	CH ₃	H	I
amino acid	H	CH ₃	H	H
amino acid	H	CH ₃	H	NH ₂
amino acid	H	CH ₃	H	NH-cyclopropyl
amino acid	H	CH ₃	H	NH-methyl
amino acid	H	CH ₃	H	NH-ethyl
amino acid	H	CH ₃	H	NH-acetyl
amino acid	H	CH ₃	H	OH
amino acid	H	CH ₃	H	OMe
amino acid	H	CH ₃	H	OEt
amino acid	H	CH ₃	H	O-cyclopropyl
amino acid	H	CH ₃	H	O-acetyl
amino acid	H	CH ₃	H	SH
amino acid	H	CH ₃	H	SMe
amino acid	H	CH ₃	H	SEt
amino acid	H	CH ₃	H	S-cyclopropyl
amino acid	H	CH ₃	H	F
amino acid	H	CH ₃	H	Cl
amino acid	H	CH ₃	H	Br
amino acid	H	CH ₃	H	I
amino acid	acyl	CH ₃	H	H
amino acid	acyl	CH ₃	H	NH ₂
amino acid	acyl	CH ₃	H	NH-cyclopropyl
amino acid	acyl	CH ₃	H	NH-methyl
amino acid	acyl	CH ₃	H	NH-ethyl
amino acid	acyl	CH ₃	H	NH-acetyl
amino acid	acyl	CH ₃	H	OH
amino acid	acyl	CH ₃	H	OMe
amino acid	acyl	CH ₃	H	OEt
amino acid	acyl	CH ₃	H	O-cyclopropyl
amino acid	acyl	CH ₃	H	O-acetyl
amino acid	acyl	CH ₃	H	SH
amino acid	acyl	CH ₃	H	SMe
amino acid	acyl	CH ₃	H	SEt
amino acid	acyl	CH ₃	H	S-cyclopropyl
amino acid	acyl	CH ₃	H	F
amino acid	acyl	CH ₃	H	Cl
amino acid	acyl	CH ₃	H	Br
amino acid	acyl	CH ₃	H	I
acyl	H	CF ₃	H	NH ₂
acyl	H	CF ₃	H	NH-cyclopropyl
acyl	H	CF ₃	H	NH-methyl
acyl	H	CF ₃	H	NH-ethyl
acyl	H	CF ₃	H	NH-acetyl
acyl	H	CF ₃	H	OH
acyl	H	CF ₃	H	OMe
acyl	H	CF ₃	H	OEt
acyl	H	CF ₃	H	O-cyclopropyl
acyl	H	CF ₃	H	O-acetyl
acyl	H	CF ₃	H	SH
acyl	H	CF ₃	H	SMe
acyl	H	CF ₃	H	SEt
acyl	H	CF ₃	H	S-cyclopropyl
acyl	H	CF ₃	H	F
acyl	H	CF ₃	H	Cl
acyl	H	CF ₃	H	Br
acyl	H	CF ₃	H	I
acyl	acyl	CF ₃	H	H
acyl	acyl	CF ₃	H	NH ₂
acyl	acyl	CF ₃	H	NH-cyclopropyl
acyl	acyl	CF ₃	H	NH-methyl
acyl	acyl	CF ₃	H	NH-ethyl
acyl	acyl	CF ₃	H	NH-acetyl

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y	
5	acyl	acyl	CF ₃	H	NH-acetyl
	acyl	acyl	CF ₃	H	OH
	acyl	acyl	CF ₃	H	OMe
	acyl	acyl	CF ₃	H	OEt
	acyl	acyl	CF ₃	H	O-cyclopropyl
	acyl	acyl	CF ₃	H	O-acetyl
10	acyl	acyl	CF ₃	H	SH
	acyl	acyl	CF ₃	H	SMe
	acyl	acyl	CF ₃	H	SEt
	acyl	acyl	CF ₃	H	S-cyclopropyl
	acyl	acyl	CF ₃	H	F
	acyl	acyl	CF ₃	H	Cl
15	acyl	acyl	CF ₃	H	Br
	acyl	acyl	CF ₃	H	I
	acyl	amino acid	CF ₃	H	H
	acyl	amino acid	CF ₃	H	NH ₂
	acyl	amino acid	CF ₃	H	NH-cyclopropyl
	acyl	amino acid	CF ₃	H	NH-methyl
20	acyl	amino acid	CF ₃	H	NH-ethyl
	acyl	amino acid	CF ₃	H	NH-acetyl
	acyl	amino acid	CF ₃	H	OH
	acyl	amino acid	CF ₃	H	OMe
	acyl	amino acid	CF ₃	H	OEt
	acyl	amino acid	CF ₃	H	O-cyclopropyl
25	acyl	amino acid	CF ₃	H	O-acetyl
	acyl	amino acid	CF ₃	H	SH
	acyl	amino acid	CF ₃	H	SMe
	acyl	amino acid	CF ₃	H	SEt
	acyl	amino acid	CF ₃	H	S-cyclopropyl
	acyl	amino acid	CF ₃	H	F
30	acyl	amino acid	CF ₃	H	Cl
	acyl	amino acid	CF ₃	H	Br
	acyl	amino acid	CF ₃	H	I
	H	acyl	CF ₃	H	H
	H	acyl	CF ₃	H	NH ₂
	H	acyl	CF ₃	H	NH-cyclopropyl
35	H	acyl	CF ₃	H	NH-methyl
	H	acyl	CF ₃	H	NH-ethyl
	H	acyl	CF ₃	H	NH-acetyl
	H	acyl	CF ₃	H	OH
	H	acyl	CF ₃	H	OMe
	H	acyl	CF ₃	H	OEt
40	H	acyl	CF ₃	H	O-cyclopropyl
	H	acyl	CF ₃	H	O-acetyl
	H	acyl	CF ₃	H	SH
	H	acyl	CF ₃	H	SMe
	H	acyl	CF ₃	H	SEt
	H	acyl	CF ₃	H	S-cyclopropyl
45	H	acyl	CF ₃	H	F
	H	acyl	CF ₃	H	Cl
	H	acyl	CF ₃	H	Br
	H	acyl	CF ₃	H	I
	H	amino acid	CF ₃	H	H
	H	amino acid	CF ₃	H	NH ₂
50	H	amino acid	CF ₃	H	NH-cyclopropyl
	H	amino acid	CF ₃	H	NH-methyl
	H	amino acid	CF ₃	H	NH-ethyl
	H	amino acid	CF ₃	H	NH-acetyl
	H	amino acid	CF ₃	H	OH
	H	amino acid	CF ₃	H	OMe
55	H	amino acid	CF ₃	H	OEt
	H	amino acid	CF ₃	H	O-cyclopropyl
	H	amino acid	CF ₃	H	O-acetyl
	H	amino acid	CF ₃	H	SH
	H	amino acid	CF ₃	H	SMe
	H	amino acid	CF ₃	H	SEt
60	H	amino acid	CF ₃	H	S-cyclopropyl
	H	amino acid	CF ₃	H	F
	H	amino acid	CF ₃	H	Cl
	H	amino acid	CF ₃	H	Br
	H	amino acid	CF ₃	H	I
	H	amino acid	CF ₃	H	H
65	amino acid	amino acid	CF ₃	H	NH ₂
	amino acid	amino acid	CF ₃	H	NH-cyclopropyl
	amino acid	amino acid	CF ₃	H	NH-methyl
	amino acid	amino acid	CF ₃	H	NH-ethyl
	amino acid	amino acid	CF ₃	H	NH-acetyl

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
amino acid	amino acid	CF ₃	H	OH
amino acid	amino acid	CF ₃	H	OMe
amino acid	amino acid	CF ₃	H	OEt
amino acid	amino acid	CF ₃	H	O-cyclopropyl
amino acid	amino acid	CF ₃	H	O-acetyl
amino acid	amino acid	CF ₃	H	SH
amino acid	amino acid	CF ₃	H	SMe
amino acid	amino acid	CF ₃	H	SEt
amino acid	amino acid	CF ₃	H	S-cyclopropyl
amino acid	amino acid	CF ₃	H	F
amino acid	amino acid	CF ₃	H	Cl
amino acid	amino acid	CF ₃	H	Br
amino acid	amino acid	CF ₃	H	I
amino acid	H	CF ₃	H	NH ₂
amino acid	H	CF ₃	H	NH-cyclopropyl
amino acid	H	CF ₃	H	NH-methyl
amino acid	H	CF ₃	H	NH-ethyl
amino acid	H	CF ₃	H	NH-acetyl
amino acid	H	CF ₃	H	OH
amino acid	H	CF ₃	H	OMe
amino acid	H	CF ₃	H	OEt
amino acid	H	CF ₃	H	O-cyclopropyl
amino acid	H	CF ₃	H	O-acetyl
amino acid	H	CF ₃	H	SH
amino acid	H	CF ₃	H	SMe
amino acid	H	CF ₃	H	SEt
amino acid	H	CF ₃	H	S-cyclopropyl
amino acid	H	CF ₃	H	F
amino acid	H	CF ₃	H	Cl
amino acid	H	CF ₃	H	Br
amino acid	H	CF ₃	H	I
amino acid	acyl	CF ₃	H	H
amino acid	acyl	CF ₃	H	NH ₂
amino acid	acyl	CF ₃	H	NH-cyclopropyl
amino acid	acyl	CF ₃	H	NH-methyl
amino acid	acyl	CF ₃	H	NH-ethyl
amino acid	acyl	CF ₃	H	NH-acetyl
amino acid	acyl	CF ₃	H	OH
amino acid	acyl	CF ₃	H	OMe
amino acid	acyl	CF ₃	H	OEt
amino acid	acyl	CF ₃	H	O-cyclopropyl
amino acid	acyl	CF ₃	H	O-acetyl
amino acid	acyl	CF ₃	H	SH
amino acid	acyl	CF ₃	H	SMe
amino acid	acyl	CF ₃	H	SEt
amino acid	acyl	CF ₃	H	S-cyclopropyl
amino acid	acyl	CF ₃	H	F
amino acid	acyl	CF ₃	H	Cl
amino acid	acyl	CF ₃	H	Br
amino acid	acyl	CF ₃	H	I
acyl	H	Br	H	NH ₂
acyl	H	Br	H	NH-cyclopropyl
acyl	H	Br	H	NH-methyl
acyl	H	Br	H	NH-ethyl
acyl	H	Br	H	NH-acetyl
acyl	H	Br	H	OH
acyl	H	Br	H	OMe
acyl	H	Br	H	OEt
acyl	H	Br	H	O-cyclopropyl
acyl	H	Br	H	O-acetyl
acyl	H	Br	H	SH
acyl	H	Br	H	SMe
acyl	H	Br	H	SEt
acyl	H	Br	H	S-cyclopropyl
acyl	H	Br	H	F
acyl	H	Br	H	Cl
acyl	H	Br	H	Br
acyl	H	Br	H	I
acyl	acyl	Br	H	H
acyl	acyl	Br	H	NH ₂
acyl	acyl	Br	H	NH-cyclopropyl
acyl	acyl	Br	H	NH-methyl
acyl	acyl	Br	H	NH-ethyl
acyl	acyl	Br	H	NH-acetyl
acyl	acyl	Br	H	OH
acyl	acyl	Br	H	OMe
acyl	acyl	Br	H	OEt
acyl	acyl	Br	H	O-cyclopropyl
acyl	acyl	Br	H	O-acetyl
acyl	acyl	Br	H	SH
acyl	acyl	Br	H	SMe
acyl	acyl	Br	H	SEt
acyl	acyl	Br	H	S-cyclopropyl
acyl	acyl	Br	H	F
acyl	acyl	Br	H	Cl
acyl	acyl	Br	H	Br
acyl	acyl	Br	H	I
acyl	acyl	Br	H	NH ₂
acyl	acyl	Br	H	NH-cyclopropyl
acyl	acyl	Br	H	NH-methyl
acyl	acyl	Br	H	NH-ethyl
acyl	acyl	Br	H	NH-acetyl
acyl	acyl	Br	H	OH
acyl	acyl	Br	H	OMe

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
5	acyl	acyl	Br	OMe
	acyl	acyl	Br	OEt
	acyl	acyl	Br	O-cyclopropyl
	acyl	acyl	Br	O-acetyl
	acyl	acyl	Br	SH
	acyl	acyl	Br	SMe
10	acyl	acyl	Br	SEt
	acyl	acyl	Br	S-cyclopropyl
	acyl	acyl	Br	F
	acyl	acyl	Br	Cl
	acyl	acyl	Br	Br
	acyl	acyl	Br	I
15	acyl	amino acid	Br	H
	acyl	amino acid	Br	NH ₂
	acyl	amino acid	Br	NH-cyclopropyl
	acyl	amino acid	Br	NH-methyl
	acyl	amino acid	Br	NH-ethyl
	acyl	amino acid	Br	NH-acetyl
	acyl	amino acid	Br	OH
20	acyl	amino acid	Br	OMe
	acyl	amino acid	Br	OEt
	acyl	amino acid	Br	O-cyclopropyl
	acyl	amino acid	Br	O-acetyl
	acyl	amino acid	Br	SH
	acyl	amino acid	Br	SMe
25	acyl	amino acid	Br	SEt
	acyl	amino acid	Br	S-cyclopropyl
	acyl	amino acid	Br	F
	acyl	amino acid	Br	Cl
	acyl	amino acid	Br	Br
	acyl	amino acid	Br	I
30	H	acyl	Br	H
	H	acyl	Br	NH ₂
	H	acyl	Br	NH-cyclopropyl
	H	acyl	Br	NH-methyl
	H	acyl	Br	NH-ethyl
	H	acyl	Br	NH-acetyl
35	H	acyl	Br	OH
	H	acyl	Br	OMe
	H	acyl	Br	OEt
	H	acyl	Br	O-cyclopropyl
	H	acyl	Br	O-acetyl
	H	acyl	Br	SH
	H	acyl	Br	SMe
40	H	acyl	Br	SEt
	H	acyl	Br	S-cyclopropyl
	H	acyl	Br	F
	H	acyl	Br	Cl
	H	acyl	Br	Br
	H	acyl	Br	I
45	H	amino acid	Br	H
	H	amino acid	Br	NH ₂
	H	amino acid	Br	NH-cyclopropyl
	H	amino acid	Br	NH-methyl
	H	amino acid	Br	NH-ethyl
	H	amino acid	Br	NH-acetyl
	H	amino acid	Br	OH
	H	amino acid	Br	OMe
	H	amino acid	Br	OEt
	H	amino acid	Br	O-cyclopropyl
	H	amino acid	Br	O-acetyl
	H	amino acid	Br	SH
55	H	amino acid	Br	SMe
	H	amino acid	Br	SEt
	H	amino acid	Br	S-cyclopropyl
	H	amino acid	Br	F
	H	amino acid	Br	Cl
	H	amino acid	Br	Br
	H	amino acid	Br	I
60	amino acid	amino acid	Br	H
	amino acid	amino acid	Br	NH ₂
	amino acid	amino acid	Br	NH-cyclopropyl
	amino acid	amino acid	Br	NH-methyl
	amino acid	amino acid	Br	NH-ethyl
	amino acid	amino acid	Br	NH-acetyl
65	amino acid	amino acid	Br	OH
	amino acid	amino acid	Br	OMe

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
amino acid	amino acid	Br	H	OEt
amino acid	amino acid	Br	H	O-cyclopropyl
amino acid	amino acid	Br	H	O-acetyl
amino acid	amino acid	Br	H	SH
amino acid	amino acid	Br	H	SMe
amino acid	amino acid	Br	H	SEt
amino acid	amino acid	Br	H	S-cyclopropyl
amino acid	amino acid	Br	H	F
amino acid	amino acid	Br	H	Cl
amino acid	amino acid	Br	H	Br
amino acid	amino acid	Br	H	I
amino acid	H	Br	H	H
amino acid	H	Br	H	NH ₂
amino acid	H	Br	H	NH-cyclopropyl
amino acid	H	Br	H	NH-methyl
amino acid	H	Br	H	NH-ethyl
amino acid	H	Br	H	NH-acetyl
amino acid	H	Br	H	OH
amino acid	H	Br	H	OMe
amino acid	H	Br	H	OEt
amino acid	H	Br	H	O-cyclopropyl
amino acid	H	Br	H	O-acetyl
amino acid	H	Br	H	SH
amino acid	H	Br	H	SMe
amino acid	H	Br	H	SEt
amino acid	H	Br	H	S-cyclopropyl
amino acid	H	Br	H	F
amino acid	H	Br	H	Cl
amino acid	H	Br	H	Br
amino acid	H	Br	H	I
amino acid	acyl	Br	H	H
amino acid	acyl	Br	H	NH ₂
amino acid	acyl	Br	H	NH-cyclopropyl
amino acid	acyl	Br	H	NH-methyl
amino acid	acyl	Br	H	NH-ethyl
amino acid	acyl	Br	H	NH-acetyl
amino acid	acyl	Br	H	OH
amino acid	acyl	Br	H	OMe
amino acid	acyl	Br	H	OEt
amino acid	acyl	Br	H	O-cyclopropyl
amino acid	acyl	Br	H	O-acetyl
amino acid	acyl	Br	H	SH
amino acid	acyl	Br	H	SMe
amino acid	acyl	Br	H	SEt
amino acid	acyl	Br	H	S-cyclopropyl
amino acid	acyl	Br	H	F
amino acid	acyl	Br	H	Cl
amino acid	acyl	Br	H	Br
amino acid	acyl	Br	H	I
acyl	H	Cl	H	H
acyl	H	Cl	H	NH ₂
acyl	H	Cl	H	NH-cyclopropyl
acyl	H	Cl	H	NH-methyl
acyl	H	Cl	H	NH-ethyl
acyl	H	Cl	H	NH-acetyl
acyl	H	Cl	H	OH
acyl	H	Cl	H	OMe
acyl	H	Cl	H	OEt
acyl	H	Cl	H	O-cyclopropyl
acyl	H	Cl	H	O-acetyl
acyl	H	Cl	H	SH
acyl	H	Cl	H	SMe
acyl	H	Cl	H	SEt
acyl	H	Cl	H	S-cyclopropyl
acyl	H	Cl	H	F
acyl	H	Cl	H	Cl
acyl	H	Cl	H	Br
acyl	H	Cl	H	I
acyl	acyl	Cl	H	H
acyl	acyl	Cl	H	NH ₂
acyl	acyl	Cl	H	NH-cyclopropyl
acyl	acyl	Cl	H	NH-methyl
acyl	acyl	Cl	H	NH-ethyl
acyl	acyl	Cl	H	NH-acetyl
acyl	acyl	Cl	H	OH
acyl	acyl	Cl	H	OMe
acyl	acyl	Cl	H	OEt
acyl	acyl	Cl	H	O-cyclopropyl
acyl	acyl	Cl	H	O-acetyl
acyl	acyl	Cl	H	SH
acyl	acyl	Cl	H	SMe
acyl	acyl	Cl	H	SEt
acyl	acyl	Cl	H	S-cyclopropyl
acyl	acyl	Cl	H	F
acyl	acyl	Cl	H	Cl
acyl	acyl	Cl	H	Br
acyl	acyl	Cl	H	I
acyl	acyl	Cl	H	H
acyl	acyl	Cl	H	NH ₂
acyl	acyl	Cl	H	NH-cyclopropyl
acyl	acyl	Cl	H	NH-methyl
acyl	acyl	Cl	H	NH-ethyl
acyl	acyl	Cl	H	NH-acetyl
acyl	acyl	Cl	H	OH
acyl	acyl	Cl	H	OMe
acyl	acyl	Cl	H	OEt
acyl	acyl	Cl	H	O-cyclopropyl
acyl	acyl	Cl	H	O-acetyl
acyl	acyl	Cl	H	SH
acyl	acyl	Cl	H	SMe
acyl	acyl	Cl	H	SEt
acyl	acyl	Cl	H	S-cyclopropyl
acyl	acyl	Cl	H	F
acyl	acyl	Cl	H	Cl
acyl	acyl	Cl	H	Br
acyl	acyl	Cl	H	I
acyl	acyl	Cl	H	H
acyl	acyl	Cl	H	NH ₂
acyl	acyl	Cl	H	NH-cyclopropyl
acyl	acyl	Cl	H	NH-methyl
acyl	acyl	Cl	H	NH-ethyl
acyl	acyl	Cl	H	NH-acetyl
acyl	acyl	Cl	H	OH
acyl	acyl	Cl	H	OMe
acyl	acyl	Cl	H	OEt
acyl	acyl	Cl	H	O-cyclopropyl

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y	
5	acyl	acyl	Cl	H	O-cyclopropyl
	acyl	acyl	Cl	H	O-acetyl
	acyl	acyl	Cl	H	SH
	acyl	acyl	Cl	H	SMe
	acyl	acyl	Cl	H	SEt
	acyl	acyl	Cl	H	S-cyclopropyl
10	acyl	acyl	Cl	H	F
	acyl	acyl	Cl	H	Cl
	acyl	acyl	Cl	H	Br
	acyl	acyl	Cl	H	I
	acyl	amino acid	Cl	H	H
	acyl	amino acid	Cl	H	NH ₂
15	acyl	amino acid	Cl	H	NH-cyclopropyl
	acyl	amino acid	Cl	H	NH-methyl
	acyl	amino acid	Cl	H	NH-ethyl
	acyl	amino acid	Cl	H	NH-acetyl
	acyl	amino acid	Cl	H	OH
	acyl	amino acid	Cl	H	OMe
	acyl	amino acid	Cl	H	OEt
20	acyl	amino acid	Cl	H	O-cyclopropyl
	acyl	amino acid	Cl	H	O-acetyl
	acyl	amino acid	Cl	H	SH
	acyl	amino acid	Cl	H	SMe
	acyl	amino acid	Cl	H	SEt
	acyl	amino acid	Cl	H	S-cyclopropyl
25	acyl	amino acid	Cl	H	F
	acyl	amino acid	Cl	H	Cl
	acyl	amino acid	Cl	H	Br
	acyl	amino acid	Cl	H	I
	H	acyl	Cl	H	H
	H	acyl	Cl	H	NH ₂
30	H	acyl	Cl	H	NH-cyclopropyl
	H	acyl	Cl	H	NH-methyl
	H	acyl	Cl	H	NH-ethyl
	H	acyl	Cl	H	NH-acetyl
	H	acyl	Cl	H	OH
	H	acyl	Cl	H	OMe
	H	acyl	Cl	H	OEt
35	H	acyl	Cl	H	O-cyclopropyl
	H	acyl	Cl	H	O-acetyl
	H	acyl	Cl	H	SH
	H	acyl	Cl	H	SMe
	H	acyl	Cl	H	SEt
	H	acyl	Cl	H	S-cyclopropyl
40	H	acyl	Cl	H	F
	H	acyl	Cl	H	Cl
	H	acyl	Cl	H	Br
	H	acyl	Cl	H	I
	H	amino acid	Cl	H	H
	H	amino acid	Cl	H	NH ₂
45	H	amino acid	Cl	H	NH-cyclopropyl
	H	amino acid	Cl	H	NH-methyl
	H	amino acid	Cl	H	NH-ethyl
	H	amino acid	Cl	H	NH-acetyl
	H	amino acid	Cl	H	OH
	H	amino acid	Cl	H	OMe
	H	amino acid	Cl	H	OEt
50	H	amino acid	Cl	H	O-cyclopropyl
	H	amino acid	Cl	H	O-acetyl
	H	amino acid	Cl	H	SH
	H	amino acid	Cl	H	SMe
	H	amino acid	Cl	H	SEt
55	H	amino acid	Cl	H	S-cyclopropyl
	H	amino acid	Cl	H	F
	H	amino acid	Cl	H	Cl
	H	amino acid	Cl	H	Br
	H	amino acid	Cl	H	I
	H	amino acid	Cl	H	H
	amino acid	amino acid	Cl	H	NH ₂
60	amino acid	amino acid	Cl	H	NH-cyclopropyl
	amino acid	amino acid	Cl	H	NH-methyl
	amino acid	amino acid	Cl	H	NH-ethyl
	amino acid	amino acid	Cl	H	NH-acetyl
	amino acid	amino acid	Cl	H	OH
	amino acid	amino acid	Cl	H	OMe
	amino acid	amino acid	Cl	H	OEt
65	amino acid	amino acid	Cl	H	O-cyclopropyl

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
amino acid	amino acid	Cl	H	O-acetyl
amino acid	amino acid	Cl	H	SH
amino acid	amino acid	Cl	H	SMe
amino acid	amino acid	Cl	H	SEt
amino acid	amino acid	Cl	H	S-cyclopropyl
amino acid	amino acid	Cl	H	F
amino acid	amino acid	Cl	H	Cl
amino acid	amino acid	Cl	H	Br
amino acid	amino acid	Cl	H	I
amino acid	H	Cl	H	H
amino acid	H	Cl	H	NH ₂
amino acid	H	Cl	H	NH-cyclopropyl
amino acid	H	Cl	H	NH-methyl
amino acid	H	Cl	H	NH-ethyl
amino acid	H	Cl	H	NH-acetyl
amino acid	H	Cl	H	OH
amino acid	H	Cl	H	OMe
amino acid	H	Cl	H	OEt
amino acid	H	Cl	H	O-cyclopropyl
amino acid	H	Cl	H	O-acetyl
amino acid	H	Cl	H	SH
amino acid	H	Cl	H	SMe
amino acid	H	Cl	H	SEt
amino acid	H	Cl	H	S-cyclopropyl
amino acid	H	Cl	H	F
amino acid	H	Cl	H	Cl
amino acid	H	Cl	H	Br
amino acid	H	Cl	H	I
amino acid	acyl	Cl	H	H
amino acid	acyl	Cl	H	NH ₂
amino acid	acyl	Cl	H	NH-cyclopropyl
amino acid	acyl	Cl	H	NH-methyl
amino acid	acyl	Cl	H	NH-ethyl
amino acid	acyl	Cl	H	NH-acetyl
amino acid	acyl	Cl	H	OH
amino acid	acyl	Cl	H	OMe
amino acid	acyl	Cl	H	OEt
amino acid	acyl	Cl	H	O-cyclopropyl
amino acid	acyl	Cl	H	O-acetyl
amino acid	acyl	Cl	H	SH
amino acid	acyl	Cl	H	SMe
amino acid	acyl	Cl	H	SEt
amino acid	acyl	Cl	H	S-cyclopropyl
amino acid	acyl	Cl	H	F
amino acid	acyl	Cl	H	Cl
amino acid	acyl	Cl	H	Br
amino acid	acyl	Cl	H	I
acyl	H	F	H	H
acyl	H	F	H	NH ₂
acyl	H	F	H	NH-cyclopropyl
acyl	H	F	H	NH-methyl
acyl	H	F	H	NH-ethyl
acyl	H	F	H	NH-acetyl
acyl	H	F	H	OH
acyl	H	F	H	OMe
acyl	H	F	H	OEt
acyl	H	F	H	O-cyclopropyl
acyl	H	F	H	O-acetyl
acyl	H	F	H	SH
acyl	H	F	H	SMe
acyl	H	F	H	SEt
acyl	H	F	H	S-cyclopropyl
acyl	H	F	H	F
acyl	H	F	H	Cl
acyl	H	F	H	Br
acyl	H	F	H	I
acyl	acyl	F	H	H
acyl	acyl	F	H	NH ₂
acyl	acyl	F	H	NH-cyclopropyl
acyl	acyl	F	H	NH-methyl
acyl	acyl	F	H	NH-ethyl
acyl	acyl	F	H	NH-acetyl
acyl	acyl	F	H	OH
acyl	acyl	F	H	OMe
acyl	acyl	F	H	OEt
acyl	acyl	F	H	O-cyclopropyl
acyl	acyl	F	H	O-acetyl
acyl	acyl	F	H	SH

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
5 acyl	acyl	F	H	SH
acyl	acyl	F	H	SMe
acyl	acyl	F	H	SEt
acyl	acyl	F	H	S-cyclopropyl
acyl	acyl	F	H	F
acyl	acyl	F	H	Cl
10 acyl	acyl	F	H	Br
acyl	acyl	F	H	I
acyl	amino acid	F	H	H
acyl	amino acid	F	H	NH ₂
acyl	amino acid	F	H	NH-cyclopropyl
acyl	amino acid	F	H	NH-methyl
15 acyl	amino acid	F	H	NH-ethyl
acyl	amino acid	F	H	NH-acetyl
acyl	amino acid	F	H	OH
acyl	amino acid	F	H	OMe
acyl	amino acid	F	H	OEt
20 acyl	amino acid	F	H	O-cyclopropyl
acyl	amino acid	F	H	O-acetyl
acyl	amino acid	F	H	SH
acyl	amino acid	F	H	SMe
acyl	amino acid	F	H	SEt
acyl	amino acid	F	H	S-cyclopropyl
acyl	amino acid	F	H	F
25 acyl	amino acid	F	H	Cl
acyl	amino acid	F	H	Br
acyl	amino acid	F	H	I
H	acyl	F	H	H
H	acyl	F	H	NH ₂
H	acyl	F	H	NH-cyclopropyl
H	acyl	F	H	NH-methyl
30 H	acyl	F	H	NH-ethyl
H	acyl	F	H	NH-acetyl
H	acyl	F	H	OH
H	acyl	F	H	OMe
H	acyl	F	H	OEt
H	acyl	F	H	O-cyclopropyl
35 H	acyl	F	H	O-acetyl
H	acyl	F	H	SH
H	acyl	F	H	SMe
H	acyl	F	H	SEt
H	acyl	F	H	S-cyclopropyl
H	acyl	F	H	F
40 H	acyl	F	H	Cl
H	acyl	F	H	Br
H	acyl	F	H	I
H	amino acid	F	H	H
H	amino acid	F	H	NH ₂
H	amino acid	F	H	NH-cyclopropyl
H	amino acid	F	H	NH-methyl
45 H	amino acid	F	H	NH-ethyl
H	amino acid	F	H	NH-acetyl
H	amino acid	F	H	OH
H	amino acid	F	H	OMe
H	amino acid	F	H	OEt
H	amino acid	F	H	O-cyclopropyl
50 H	amino acid	F	H	O-acetyl
H	amino acid	F	H	SH
H	amino acid	F	H	SMe
H	amino acid	F	H	SEt
H	amino acid	F	H	S-cyclopropyl
H	amino acid	F	H	F
55 H	amino acid	F	H	Cl
H	amino acid	F	H	Br
H	amino acid	F	H	I
H	amino acid	F	H	H
amino acid	amino acid	F	H	NH ₂
amino acid	amino acid	F	H	NH-cyclopropyl
60 amino acid	amino acid	F	H	NH-methyl
amino acid	amino acid	F	H	NH-ethyl
amino acid	amino acid	F	H	NH-acetyl
amino acid	amino acid	F	H	OH
amino acid	amino acid	F	H	OMe
amino acid	amino acid	F	H	OEt
65 amino acid	amino acid	F	H	O-cyclopropyl
amino acid	amino acid	F	H	O-acetyl
amino acid	amino acid	F	H	SH

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
amino acid	amino acid	F	H	SMe
amino acid	amino acid	F	H	SEt
amino acid	amino acid	F	H	S-cyclopropyl
amino acid	amino acid	F	H	F
amino acid	amino acid	F	H	Cl
amino acid	amino acid	F	H	Br
amino acid	amino acid	F	H	I
amino acid	H	F	H	H
amino acid	H	F	H	NH ₂
amino acid	H	F	H	NH-cyclopropyl
amino acid	H	F	H	NH-methyl
amino acid	H	F	H	NH-ethyl
amino acid	H	F	H	NH-acetyl
amino acid	H	F	H	OH
amino acid	H	F	H	OMe
amino acid	H	F	H	OEt
amino acid	H	F	H	O-cyclopropyl
amino acid	H	F	H	O-acetyl
amino acid	H	F	H	SH
amino acid	H	F	H	SMe
amino acid	H	F	H	SEt
amino acid	H	F	H	S-cyclopropyl
amino acid	H	F	H	F
amino acid	H	F	H	Cl
amino acid	H	F	H	Br
amino acid	H	F	H	I
amino acid	H	F	H	H
amino acid	acyl	F	H	H
amino acid	acyl	F	H	NH ₂
amino acid	acyl	F	H	NH-cyclopropyl
amino acid	acyl	F	H	NH-methyl
amino acid	acyl	F	H	NH-ethyl
amino acid	acyl	F	H	NH-acetyl
amino acid	acyl	F	H	OH
amino acid	acyl	F	H	OMe
amino acid	acyl	F	H	OEt
amino acid	acyl	F	H	O-cyclopropyl
amino acid	acyl	F	H	O-acetyl
amino acid	acyl	F	H	SH
amino acid	acyl	F	H	SMe
amino acid	acyl	F	H	SEt
amino acid	acyl	F	H	S-cyclopropyl
amino acid	acyl	F	H	F
amino acid	acyl	F	H	Cl
amino acid	acyl	F	H	Br
amino acid	acyl	F	H	I
acyl	H	NH ₂	H	H
acyl	H	NH ₂	H	NH ₂
acyl	H	NH ₂	H	NH-cyclopropyl
acyl	H	NH ₂	H	NH-methyl
acyl	H	NH ₂	H	NH-ethyl
acyl	H	NH ₂	H	NH-acetyl
acyl	H	NH ₂	H	OH
acyl	H	NH ₂	H	OMe
acyl	H	NH ₂	H	OEt
acyl	H	NH ₂	H	O-cyclopropyl
acyl	H	NH ₂	H	O-acetyl
acyl	H	NH ₂	H	SH
acyl	H	NH ₂	H	SMe
acyl	H	NH ₂	H	SEt
acyl	H	NH ₂	H	S-cyclopropyl
acyl	H	NH ₂	H	F
acyl	H	NH ₂	H	Cl
acyl	H	NH ₂	H	Br
acyl	H	NH ₂	H	I
acyl	acyl	NH ₂	H	H
acyl	acyl	NH ₂	H	NH ₂
acyl	acyl	NH ₂	H	NH-cyclopropyl
acyl	acyl	NH ₂	H	NH-methyl
acyl	acyl	NH ₂	H	NH-ethyl
acyl	acyl	NH ₂	H	NH-acetyl
acyl	acyl	NH ₂	H	OH
acyl	acyl	NH ₂	H	OMe
acyl	acyl	NH ₂	H	OEt
acyl	acyl	NH ₂	H	O-cyclopropyl
acyl	acyl	NH ₂	H	O-acetyl
acyl	acyl	NH ₂	H	SH
acyl	acyl	NH ₂	H	SMe
acyl	acyl	NH ₂	H	SEt
acyl	acyl	NH ₂	H	S-cyclopropyl

TABLE 2-continued

	R ²	R ³	X ¹	X ²	Y
5	acyl	acyl	NH ₂	H	S-cyclopropyl
	acyl	acyl	NH ₂	H	F
	acyl	acyl	NH ₂	H	Cl
	acyl	acyl	NH ₂	H	Br
	acyl	acyl	NH ₂	H	I
10	acyl	amino acid	NH ₂	H	H
	acyl	amino acid	NH ₂	H	NH ₂
	acyl	amino acid	NH ₂	H	NH-cyclopropyl
	acyl	amino acid	NH ₂	H	NH-methyl
	acyl	amino acid	NH ₂	H	NH-ethyl
15	acyl	amino acid	NH ₂	H	NH-acetyl
	acyl	amino acid	NH ₂	H	OH
	acyl	amino acid	NH ₂	H	OMe
	acyl	amino acid	NH ₂	H	OEt
	acyl	amino acid	NH ₂	H	O-cyclopropyl
20	acyl	amino acid	NH ₂	H	O-acetyl
	acyl	amino acid	NH ₂	H	SH
	acyl	amino acid	NH ₂	H	SMe
	acyl	amino acid	NH ₂	H	SEt
	acyl	amino acid	NH ₂	H	S-cyclopropyl
25	acyl	amino acid	NH ₂	H	F
	acyl	amino acid	NH ₂	H	Cl
	acyl	amino acid	NH ₂	H	Br
	acyl	amino acid	NH ₂	H	I
	H	acyl	NH ₂	H	H
30	H	acyl	NH ₂	H	NH ₂
	H	acyl	NH ₂	H	NH-cyclopropyl
	H	acyl	NH ₂	H	NH-methyl
	H	acyl	NH ₂	H	NH-ethyl
	H	acyl	NH ₂	H	NH-acetyl
35	H	acyl	NH ₂	H	OH
	H	acyl	NH ₂	H	OMe
	H	acyl	NH ₂	H	OEt
	H	acyl	NH ₂	H	O-cyclopropyl
	H	acyl	NH ₂	H	O-acetyl
40	H	acyl	NH ₂	H	SH
	H	acyl	NH ₂	H	SMe
	H	acyl	NH ₂	H	SEt
	H	acyl	NH ₂	H	S-cyclopropyl
	H	acyl	NH ₂	H	F
45	H	acyl	NH ₂	H	Cl
	H	acyl	NH ₂	H	Br
	H	acyl	NH ₂	H	I
	H	amino acid	NH ₂	H	H
	H	amino acid	NH ₂	H	NH ₂
50	H	amino acid	NH ₂	H	NH-cyclopropyl
	H	amino acid	NH ₂	H	NH-methyl
	H	amino acid	NH ₂	H	NH-ethyl
	H	amino acid	NH ₂	H	NH-acetyl
	H	amino acid	NH ₂	H	OH
55	H	amino acid	NH ₂	H	OMe
	H	amino acid	NH ₂	H	OEt
	H	amino acid	NH ₂	H	O-cyclopropyl
	H	amino acid	NH ₂	H	O-acetyl
	H	amino acid	NH ₂	H	SH
60	H	amino acid	NH ₂	H	SMe
	H	amino acid	NH ₂	H	SEt
	H	amino acid	NH ₂	H	S-cyclopropyl
	H	amino acid	NH ₂	H	F
	H	amino acid	NH ₂	H	Cl
65	H	amino acid	NH ₂	H	Br
	H	amino acid	NH ₂	H	I
	amino acid	amino acid	NH ₂	H	H
	amino acid	amino acid	NH ₂	H	NH ₂
	amino acid	amino acid	NH ₂	H	NH-cyclopropyl
	amino acid	amino acid	NH ₂	H	NH-methyl
	amino acid	amino acid	NH ₂	H	NH-ethyl
	amino acid	amino acid	NH ₂	H	NH-acetyl
	amino acid	amino acid	NH ₂	H	OH
	amino acid	amino acid	NH ₂	H	OMe
	amino acid	amino acid	NH ₂	H	OEt
	amino acid	amino acid	NH ₂	H	O-cyclopropyl
	amino acid	amino acid	NH ₂	H	O-acetyl
	amino acid	amino acid	NH ₂	H	SH
	amino acid	amino acid	NH ₂	H	SMe
	amino acid	amino acid	NH ₂	H	SEt
	amino acid	amino acid	NH ₂	H	S-cyclopropyl

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
amino acid	amino acid	NH ₂	H	F
amino acid	amino acid	NH ₂	H	Cl
amino acid	amino acid	NH ₂	H	Br
amino acid	amino acid	NH ₂	H	I
amino acid	H	NH ₂	H	H
amino acid	H	NH ₂	H	NH ₂
amino acid	H	NH ₂	H	NH-cyclopropyl
amino acid	H	NH ₂	H	NH-methyl
amino acid	H	NH ₂	H	NH-ethyl
amino acid	H	NH ₂	H	NH-acetyl
amino acid	H	NH ₂	H	OH
amino acid	H	NH ₂	H	OMe
amino acid	H	NH ₂	H	OEt
amino acid	H	NH ₂	H	O-cyclopropyl
amino acid	H	NH ₂	H	O-acetyl
amino acid	H	NH ₂	H	SH
amino acid	H	NH ₂	H	SMe
amino acid	H	NH ₂	H	SEt
amino acid	H	NH ₂	H	S-cyclopropyl
amino acid	H	NH ₂	H	F
amino acid	H	NH ₂	H	Cl
amino acid	H	NH ₂	H	Br
amino acid	H	NH ₂	H	I
amino acid	acyl	NH ₂	H	H
amino acid	acyl	NH ₂	H	NH ₂
amino acid	acyl	NH ₂	H	NH-cyclopropyl
amino acid	acyl	NH ₂	H	NH-methyl
amino acid	acyl	NH ₂	H	NH-ethyl
amino acid	acyl	NH ₂	H	NH-acetyl
amino acid	acyl	NH ₂	H	OH
amino acid	acyl	NH ₂	H	OMe
amino acid	acyl	NH ₂	H	OEt
amino acid	acyl	NH ₂	H	O-cyclopropyl
amino acid	acyl	NH ₂	H	O-acetyl
amino acid	acyl	NH ₂	H	SH
amino acid	acyl	NH ₂	H	SMe
amino acid	acyl	NH ₂	H	SEt
amino acid	acyl	NH ₂	H	S-cyclopropyl
amino acid	acyl	NH ₂	H	F
amino acid	acyl	NH ₂	H	Cl
amino acid	acyl	NH ₂	H	Br
amino acid	acyl	NH ₂	H	I
acyl	H	SH	H	H
acyl	H	SH	H	NH ₂
acyl	H	SH	H	NH-cyclopropyl
acyl	H	SH	H	NH-methyl
acyl	H	SH	H	NH-ethyl
acyl	H	SH	H	NH-acetyl
acyl	H	SH	H	OH
acyl	H	SH	H	OMe
acyl	H	SH	H	OEt
acyl	H	SH	H	O-cyclopropyl
acyl	H	SH	H	O-acetyl
acyl	H	SH	H	SH
acyl	H	SH	H	SMe
acyl	H	SH	H	SEt
acyl	H	SH	H	S-cyclopropyl
acyl	H	SH	H	F
acyl	H	SH	H	Cl
acyl	H	SH	H	Br
acyl	H	SH	H	I
acyl	acyl	SH	H	H
acyl	acyl	SH	H	NH ₂
acyl	acyl	SH	H	NH-cyclopropyl
acyl	acyl	SH	H	NH-methyl
acyl	acyl	SH	H	NH-ethyl
acyl	acyl	SH	H	NH-acetyl
acyl	acyl	SH	H	OH
acyl	acyl	SH	H	OMe
acyl	acyl	SH	H	OEt
acyl	acyl	SH	H	O-cyclopropyl
acyl	acyl	SH	H	O-acetyl
acyl	acyl	SH	H	SH
acyl	acyl	SH	H	SMe
acyl	acyl	SH	H	SEt
acyl	acyl	SH	H	S-cyclopropyl
acyl	acyl	SH	H	F

TABLE 2-continued

	R ²	R ³	X ¹	X ²	Y
5	acyl	acyl	SH	H	Cl
	acyl	acyl	SH	H	Br
	acyl	acyl	SH	H	I
	acyl	amino acid	SH	H	H
	acyl	amino acid	SH	H	NH ₂
	acyl	amino acid	SH	H	NH-cyclopropyl
10	acyl	amino acid	SH	H	NH-methyl
	acyl	amino acid	SH	H	NH-ethyl
	acyl	amino acid	SH	H	NH-acetyl
	acyl	amino acid	SH	H	OH
	acyl	amino acid	SH	H	OMe
	acyl	amino acid	SH	H	OEt
15	acyl	amino acid	SH	H	O-cyclopropyl
	acyl	amino acid	SH	H	O-acetyl
	acyl	amino acid	SH	H	SH
	acyl	amino acid	SH	H	SMe
	acyl	amino acid	SH	H	SEt
	acyl	amino acid	SH	H	S-cyclopropyl
20	acyl	amino acid	SH	H	F
	acyl	amino acid	SH	H	Cl
	acyl	amino acid	SH	H	Br
	acyl	amino acid	SH	H	I
	H	acyl	SH	H	H
	H	acyl	SH	H	NH ₂
25	H	acyl	SH	H	NH-cyclopropyl
	H	acyl	SH	H	NH-methyl
	H	acyl	SH	H	NH-ethyl
	H	acyl	SH	H	NH-acetyl
	H	acyl	SH	H	OH
	H	acyl	SH	H	OMe
	H	acyl	SH	H	OEt
30	H	acyl	SH	H	O-cyclopropyl
	H	acyl	SH	H	O-acetyl
	H	acyl	SH	H	SH
	H	acyl	SH	H	SMe
	H	acyl	SH	H	SEt
	H	acyl	SH	H	S-cyclopropyl
35	H	acyl	SH	H	F
	H	acyl	SH	H	Cl
	H	acyl	SH	H	Br
	H	acyl	SH	H	I
	H	amino acid	SH	H	H
	H	amino acid	SH	H	NH ₂
40	H	amino acid	SH	H	NH-cyclopropyl
	H	amino acid	SH	H	NH-methyl
	H	amino acid	SH	H	NH-ethyl
	H	amino acid	SH	H	NH-acetyl
	H	amino acid	SH	H	OH
	H	amino acid	SH	H	OMe
	H	amino acid	SH	H	OEt
45	H	amino acid	SH	H	O-cyclopropyl
	H	amino acid	SH	H	O-acetyl
	H	amino acid	SH	H	SH
	H	amino acid	SH	H	SMe
	H	amino acid	SH	H	SEt
	H	amino acid	SH	H	S-cyclopropyl
50	H	amino acid	SH	H	F
	H	amino acid	SH	H	Cl
	H	amino acid	SH	H	Br
	H	amino acid	SH	H	I
	amino acid	amino acid	SH	H	H
	amino acid	amino acid	SH	H	NH ₂
55	amino acid	amino acid	SH	H	NH-cyclopropyl
	amino acid	amino acid	SH	H	NH-methyl
	amino acid	amino acid	SH	H	NH-ethyl
	amino acid	amino acid	SH	H	NH-acetyl
	amino acid	amino acid	SH	H	OH
	amino acid	amino acid	SH	H	OMe
	amino acid	amino acid	SH	H	OEt
60	amino acid	amino acid	SH	H	O-cyclopropyl
	amino acid	amino acid	SH	H	O-acetyl
	amino acid	amino acid	SH	H	SH
	amino acid	amino acid	SH	H	SMe
	amino acid	amino acid	SH	H	SEt
	amino acid	amino acid	SH	H	S-cyclopropyl
65	amino acid	amino acid	SH	H	F
	amino acid	amino acid	SH	H	Cl

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
amino acid	amino acid	SH	H	Br
amino acid	amino acid	SH	H	I
amino acid	H	SH	H	H
amino acid	H	SH	H	NH ₂
amino acid	H	SH	H	NH-cyclopropyl
amino acid	H	SH	H	NH-methyl
amino acid	H	SH	H	NH-ethyl
amino acid	H	SH	H	NH-acetyl
amino acid	H	SH	H	OH
amino acid	H	SH	H	OMe
amino acid	H	SH	H	OEt
amino acid	H	SH	H	O-cyclopropyl
amino acid	H	SH	H	O-acetyl
amino acid	H	SH	H	SH
amino acid	H	SH	H	SMe
amino acid	H	SH	H	SEt
amino acid	H	SH	H	S-cyclopropyl
amino acid	H	SH	H	F
amino acid	H	SH	H	Cl
amino acid	H	SH	H	Br
amino acid	H	SH	H	I
amino acid	acyl	SH	H	H
amino acid	acyl	SH	H	NH ₂
amino acid	acyl	SH	H	NH-cyclopropyl
amino acid	acyl	SH	H	NH-methyl
amino acid	acyl	SH	H	NH-ethyl
amino acid	acyl	SH	H	NH-acetyl
amino acid	acyl	SH	H	OH
amino acid	acyl	SH	H	OMe
amino acid	acyl	SH	H	OEt
amino acid	acyl	SH	H	O-cyclopropyl
amino acid	acyl	SH	H	O-acetyl
amino acid	acyl	SH	H	SH
amino acid	acyl	SH	H	SMe
amino acid	acyl	SH	H	SEt
amino acid	acyl	SH	H	S-cyclopropyl
amino acid	acyl	SH	H	F
amino acid	acyl	SH	H	Cl
amino acid	acyl	SH	H	Br
amino acid	acyl	SH	H	I
acyl	H	OH	H	H
acyl	H	OH	H	NH ₂
acyl	H	OH	H	NH-cyclopropyl
acyl	H	OH	H	NH-methyl
acyl	H	OH	H	NH-ethyl
acyl	H	OH	H	NH-acetyl
acyl	H	OH	H	OH
acyl	H	OH	H	OMe
acyl	H	OH	H	OEt
acyl	H	OH	H	O-cyclopropyl
acyl	H	OH	H	O-acetyl
acyl	H	OH	H	SH
acyl	H	OH	H	SMe
acyl	H	OH	H	SEt
acyl	H	OH	H	S-cyclopropyl
acyl	H	OH	H	F
acyl	H	OH	H	Cl
acyl	H	OH	H	Br
acyl	H	OH	H	I
acyl	acyl	OH	H	H
acyl	acyl	OH	H	NH ₂
acyl	acyl	OH	H	NH-cyclopropyl
acyl	acyl	OH	H	NH-methyl
acyl	acyl	OH	H	NH-ethyl
acyl	acyl	OH	H	NH-acetyl
acyl	acyl	OH	H	OH
acyl	acyl	OH	H	OMe
acyl	acyl	OH	H	OEt
acyl	acyl	OH	H	O-cyclopropyl
acyl	acyl	OH	H	O-acetyl
acyl	acyl	OH	H	SH
acyl	acyl	OH	H	SMe
acyl	acyl	OH	H	SEt
acyl	acyl	OH	H	S-cyclopropyl
acyl	acyl	OH	H	F
acyl	acyl	OH	H	Cl
acyl	acyl	OH	H	Br

TABLE 2-continued

	R ²	R ³	X ¹	X ²	Y
5	acyl	acyl	OH	H	I
	acyl	amino acid	OH	H	H
	acyl	amino acid	OH	H	NH ₂
	acyl	amino acid	OH	H	NH-cyclopropyl
	acyl	amino acid	OH	H	NH-methyl
	acyl	amino acid	OH	H	NH-ethyl
10	acyl	amino acid	OH	H	NH-acetyl
	acyl	amino acid	OH	H	OH
	acyl	amino acid	OH	H	OMe
	acyl	amino acid	OH	H	OEt
	acyl	amino acid	OH	H	O-cyclopropyl
	acyl	amino acid	OH	H	O-acetyl
15	acyl	amino acid	OH	H	SH
	acyl	amino acid	OH	H	SMe
	acyl	amino acid	OH	H	SEt
	acyl	amino acid	OH	H	S-cyclopropyl
	acyl	amino acid	OH	H	F
	acyl	amino acid	OH	H	Cl
20	acyl	amino acid	OH	H	Br
	acyl	amino acid	OH	H	I
	H	acyl	OH	H	H
	H	acyl	OH	H	NH ₂
	H	acyl	OH	H	NH-cyclopropyl
	H	acyl	OH	H	NH-methyl
	H	acyl	OH	H	NH-ethyl
25	H	acyl	OH	H	NH-acetyl
	H	acyl	OH	H	OH
	H	acyl	OH	H	OMe
	H	acyl	OH	H	OEt
	H	acyl	OH	H	O-cyclopropyl
	H	acyl	OH	H	O-acetyl
30	H	acyl	OH	H	SH
	H	acyl	OH	H	SMe
	H	acyl	OH	H	SEt
	H	acyl	OH	H	S-cyclopropyl
	H	acyl	OH	H	F
	H	acyl	OH	H	Cl
35	H	acyl	OH	H	Br
	H	acyl	OH	H	I
	H	amino acid	OH	H	H
	H	amino acid	OH	H	NH ₂
	H	amino acid	OH	H	NH-cyclopropyl
	H	amino acid	OH	H	NH-methyl
40	H	amino acid	OH	H	NH-ethyl
	H	amino acid	OH	H	NH-acetyl
	H	amino acid	OH	H	OH
	H	amino acid	OH	H	OMe
	H	amino acid	OH	H	OEt
	H	amino acid	OH	H	O-cyclopropyl
	H	amino acid	OH	H	O-acetyl
45	H	amino acid	OH	H	SH
	H	amino acid	OH	H	SMe
	H	amino acid	OH	H	SEt
	H	amino acid	OH	H	S-cyclopropyl
	H	amino acid	OH	H	F
	H	amino acid	OH	H	Cl
50	H	amino acid	OH	H	Br
	H	amino acid	OH	H	I
	amino acid	amino acid	OH	H	H
	amino acid	amino acid	OH	H	NH ₂
	amino acid	amino acid	OH	H	NH-cyclopropyl
	amino acid	amino acid	OH	H	NH-methyl
55	amino acid	amino acid	OH	H	NH-ethyl
	amino acid	amino acid	OH	H	NH-acetyl
	amino acid	amino acid	OH	H	OH
	amino acid	amino acid	OH	H	OMe
	amino acid	amino acid	OH	H	OEt
	amino acid	amino acid	OH	H	O-cyclopropyl
	amino acid	amino acid	OH	H	O-acetyl
60	amino acid	amino acid	OH	H	SH
	amino acid	amino acid	OH	H	SMe
	amino acid	amino acid	OH	H	SEt
	amino acid	amino acid	OH	H	S-cyclopropyl
	amino acid	amino acid	OH	H	F
	amino acid	amino acid	OH	H	Cl
65	amino acid	amino acid	OH	H	Br
	amino acid	amino acid	OH	H	I

TABLE 2-continued

R ²	R ³	X ¹	X ²	Y
amino acid	H	OH	H	H
amino acid	H	OH	H	NH ₂
amino acid	H	OH	H	NH-cyclopropyl
amino acid	H	OH	H	NH-methyl
amino acid	H	OH	H	NH-ethyl
amino acid	H	OH	H	NH-acetyl
amino acid	H	OH	H	OH
amino acid	H	OH	H	OMe
amino acid	H	OH	H	OEt
amino acid	H	OH	H	O-cyclopropyl
amino acid	H	OH	H	O-acetyl
amino acid	H	OH	H	SH
amino acid	H	OH	H	SMe
amino acid	H	OH	H	SEt
amino acid	H	OH	H	S-cyclopropyl
amino acid	H	OH	H	F
amino acid	H	OH	H	Cl
amino acid	H	OH	H	Br
amino acid	H	OH	H	I
amino acid	acyl	OH	H	H
amino acid	acyl	OH	H	NH ₂
amino acid	acyl	OH	H	NH-cyclopropyl
amino acid	acyl	OH	H	NH-methyl
amino acid	acyl	OH	H	NH-ethyl
amino acid	acyl	OH	H	NH-acetyl
amino acid	acyl	OH	H	OH
amino acid	acyl	OH	H	OMe
amino acid	acyl	OH	H	OEt
amino acid	acyl	OH	H	O-cyclopropyl
amino acid	acyl	OH	H	O-acetyl
amino acid	acyl	OH	H	SH
amino acid	acyl	OH	H	SMe
amino acid	acyl	OH	H	SEt
amino acid	acyl	OH	H	S-cyclopropyl
amino acid	acyl	OH	H	F
amino acid	acyl	OH	H	Cl
amino acid	acyl	OH	H	Br
amino acid	acyl	OH	H	I

TABLE 3

R ²	R ³	R ⁶	X	Base
acyl	H	CH ₃	O	6-Methylthymine
acyl	H	CH ₃	O	6-Methyluracil
acyl	H	CH ₃	O	8-Methylguanine
acyl	H	CH ₃	O	6-Methylcytosine
acyl	H	CH ₃	O	8-Methyladenine
acyl	H	CH ₃	O	8-Methylhypoxanthine
acyl	H	CH ₃	O	5-Fluoro-6-methylcytosine
acyl	H	CH ₃	O	5-Fluoro-6-methyluracil
acyl	H	CH ₃	O	2-Fluoro-8-methyladenine
acyl	H	CH ₃	O	2-Fluoro-8-methylhypoxanthine
acyl	H	CH ₃	O	2-amino-8-methyladenine
acyl	H	CH ₃	O	2-amino-8-methylhypoxanthine
acyl	H	CH ₃	O	2-N-acetyl-8-methylguanine
acyl	H	CH ₃	O	4-N-acetyl-8-methylcytosine
acyl	H	CH ₃	O	6-N-acetyl-8-methyladenine
acyl	H	CH ₃	O	4-N-acetyl-5-fluoro-8-methylcytosine
acyl	H	CH ₃	O	6-N-acetyl-2-fluoro-8-methyladenine
acyl	H	CH ₃	O	6-N-acetyl-2-amino-8-methyladenine
acyl	H	CH ₃	O	2-N-acetyl-8-methyladenine
acyl	H	CH ₃	O	2-N-acetyl-8-methylhypoxanthine
acyl	acyl	CH ₃	O	6-Methylthymine
acyl	acyl	CH ₃	O	6-Methyluracil
acyl	acyl	CH ₃	O	8-Methylguanine
acyl	acyl	CH ₃	O	6-Methylcytosine
acyl	acyl	CH ₃	O	8-Methyladenine
acyl	acyl	CH ₃	O	8-Methylhypoxanthine
acyl	acyl	CH ₃	O	5-Fluoro-6-methylcytosine
acyl	acyl	CH ₃	O	5-Fluoro-6-methyluracil
acyl	acyl	CH ₃	O	2-Fluoro-8-methyladenine
acyl	acyl	CH ₃	O	2-Fluoro-8-methylhypoxanthine
acyl	acyl	CH ₃	O	2-amino-8-methyladenine
acyl	acyl	CH ₃	O	2-amino-8-methylhypoxanthine
acyl	acyl	CH ₃	O	2-N-acetyl-8-methylguanine
acyl	acyl	CH ₃	O	4-N-acetyl-8-methylcytosine
acyl	acyl	CH ₃	O	6-N-acetyl-8-methyladenine
acyl	acyl	CH ₃	O	4-N-acetyl-5-fluoro-8-methylcytosine
acyl	acyl	CH ₃	O	6-N-acetyl-2-fluoro-8-methyladenine
acyl	acyl	CH ₃	O	6-N-acetyl-2-amino-8-methyladenine
acyl	acyl	CH ₃	O	2-N-acetyl-8-methyladenine
acyl	acyl	CH ₃	O	2-N-acetyl-8-methylhypoxanthine
acyl	acyl	CH ₃	O	6-Methylthymine
acyl	acyl	CH ₃	O	6-Methyluracil
acyl	acyl	CH ₃	O	8-Methylguanine
acyl	acyl	CH ₃	O	6-Methylcytosine
acyl	acyl	CH ₃	O	8-Methyladenine
acyl	acyl	CH ₃	O	8-Methylhypoxanthine
acyl	acyl	CH ₃	O	5-Fluoro-6-methylcytosine
acyl	acyl	CH ₃	O	5-Fluoro-6-methyluracil

TABLE 3-continued

R ²	R ³	R ⁶	X	Base
5	acyl	acyl	CH ₃	O 5-Fluoro-6-methylcytosine
	acyl	acyl	CH ₃	O 5-Fluoro-6-methyluracil
	acyl	acyl	CH ₃	O 2-Fluoro-8-methyladenine
	acyl	acyl	CH ₃	O 2-Fluoro-8-methylhypoxanthine
	acyl	acyl	CH ₃	O 2-amino-8-methyladenine
	acyl	acyl	CH ₃	O 2-amino-8-methylhypoxanthine
10	acyl	acyl	CH ₃	O 2-N-acetyl-8-methylguanine
	acyl	acyl	CH ₃	O 4-N-acetyl-8-methylcytosine
	acyl	acyl	CH ₃	O 6-N-acetyl-8-methyladenine
	acyl	acyl	CH ₃	O 4-N-acetyl-5-fluoro-8-methylcytosine
	acyl	acyl	CH ₃	O 6-N-acetyl-2-fluoro-8-methyladenine
15	acyl	acyl	CH ₃	O 6-N-acetyl-2-amino-8-methyladenine
	acyl	acyl	CH ₃	O 2-N-acetyl-8-methyladenine
	acyl	acyl	CH ₃	O 2-N-acetyl-8-methylhypoxanthine
20	acyl	amino acid	CH ₃	O 6-Methylthymine
	acyl	amino acid	CH ₃	O 6-Methyluracil
	acyl	amino acid	CH ₃	O 8-Methylguanine
	acyl	amino acid	CH ₃	O 6-Methylcytosine
	acyl	amino acid	CH ₃	O 8-Methyladenine
	acyl	amino acid	CH ₃	O 8-Methylhypoxanthine
25	acyl	amino acid	CH ₃	O 5-Fluoro-6-methylcytosine
	acyl	amino acid	CH ₃	O 5-Fluoro-6-methyluracil
	acyl	amino acid	CH ₃	O 2-Fluoro-8-methyladenine
	acyl	amino acid	CH ₃	O 2-Fluoro-8-methylhypoxanthine
	acyl	amino acid	CH ₃	O 2-amino-8-methyladenine
	acyl	amino acid	CH ₃	O 2-amino-8-methylhypoxanthine
30	acyl	amino acid	CH ₃	O 2-N-acetyl-8-methylguanine
	acyl	amino acid	CH ₃	O 4-N-acetyl-8-methylcytosine
	acyl	amino acid	CH ₃	O 6-N-acetyl-8-methyladenine
	acyl	amino acid	CH ₃	O 4-N-acetyl-5-fluoro-8-methylcytosine
	acyl	amino acid	CH ₃	O 6-N-acetyl-2-fluoro-8-methyladenine
35	acyl	amino acid	CH ₃	O 6-N-acetyl-2-amino-8-methyladenine
	acyl	amino acid	CH ₃	O 2-N-acetyl-8-methyladenine
	acyl	amino acid	CH ₃	O 2-N-acetyl-8-methylhypoxanthine
40	H	acyl	CH ₃	O 6-Methylthymine
	H	acyl	CH ₃	O 6-Methyluracil
	H	acyl	CH ₃	O 8-Methylguanine
	H	acyl	CH ₃	O 6-Methylcytosine
	H	acyl	CH ₃	O 8-Methyladenine
	H	acyl	CH ₃	O 8-Methylhypoxanthine
45	H	acyl	CH ₃	O 5-Fluoro-6-methylcytosine
	H	acyl	CH ₃	O 5-Fluoro-6-methyluracil
	H	acyl	CH ₃	O 2-Fluoro-8-methyladenine
	H	acyl	CH ₃	O 2-Fluoro-8-methylhypoxanthine
	H	acyl	CH ₃	O 2-amino-8-methyladenine
	H	acyl	CH ₃	O 2-amino-8-methylhypoxanthine
50	H	acyl	CH ₃	O 2-N-acetyl-8-methylguanine
	H	acyl	CH ₃	O 4-N-acetyl-8-methylcytosine
	H	acyl	CH ₃	O 6-N-acetyl-8-methyladenine
	H	acyl	CH ₃	O 4-N-acetyl-5-fluoro-8-methylcytosine
	H	acyl	CH ₃	O 6-N-acetyl-2-fluoro-8-methyladenine
55	H	acyl	CH ₃	O 6-N-acetyl-2-amino-8-methyladenine
	H	acyl	CH ₃	O 2-N-acetyl-8-methyladenine
	H	acyl	CH ₃	O 2-N-acetyl-8-methylhypoxanthine
60	H	amino acid	CH ₃	O 6-Methylthymine
	H	amino acid	CH ₃	O 6-Methyluracil
	H	amino acid	CH ₃	O 8-Methylguanine
	H	amino acid	CH ₃	O 6-Methylcytosine
	H	amino acid	CH ₃	O 8-Methyladenine
	H	amino acid	CH ₃	O 8-Methylhypoxanthine
65	H	amino acid	CH ₃	O 5-Fluoro-6-methylcytosine
	H	amino acid	CH ₃	O 5-Fluoro-6-methyluracil

TABLE 3-continued

R ²	R ³	R ⁶	X	Base
H	amino acid	CH ₃	O	2-Fluoro-8-methyladenine
H	amino acid	CH ₃	O	2-Fluoro-8-methylthypoxanthine
H	amino acid	CH ₃	O	2-amino-8-methyladenine
H	amino acid	CH ₃	O	2-amino-8-methylthypoxanthine
H	amino acid	CH ₃	O	2-N-acetyl-8-methylguanine
H	amino acid	CH ₃	O	4-N-acetyl-8-methylcytosine
H	amino acid	CH ₃	O	6-N-acetyl-8-methyladenine
H	amino acid	CH ₃	O	4-N-acetyl-5-fluoro-8-methylcytosine
H	amino acid	CH ₃	O	6-N-acetyl-2-fluoro-8-methyladenine
H	amino acid	CH ₃	O	6-N-acetyl-2-amino-8-methyladenine
H	amino acid	CH ₃	O	2-N-acetyl-amino-8-methyladenine
H	amino acid	CH ₃	O	2-N-acetyl-amino-8-methylthypoxanthine
amino acid	amino acid	CH ₃	O	6-Methylthymine
amino acid	amino acid	CH ₃	O	6-Methyluracil
amino acid	amino acid	CH ₃	O	8-Methylguanine
amino acid	amino acid	CH ₃	O	6-Methylcytosine
amino acid	amino acid	CH ₃	O	8-Methyladenine
amino acid	amino acid	CH ₃	O	8-Methylthypoxanthine
amino acid	amino acid	CH ₃	O	5-Fluoro-6-methylcytosine
amino acid	amino acid	CH ₃	O	5-Fluoro-6-methyluracil
amino acid	amino acid	CH ₃	O	2-Fluoro-8-methyladenine
amino acid	amino acid	CH ₃	O	2-Fluoro-8-methylthypoxanthine
amino acid	amino acid	CH ₃	O	2-amino-8-methyladenine
amino acid	amino acid	CH ₃	O	2-amino-8-methylthypoxanthine
amino acid	amino acid	CH ₃	O	2-N-acetyl-8-methylguanine
amino acid	amino acid	CH ₃	O	4-N-acetyl-8-methylcytosine
amino acid	amino acid	CH ₃	O	6-N-acetyl-8-methyladenine
amino acid	amino acid	CH ₃	O	4-N-acetyl-5-fluoro-8-methylcytosine
amino acid	amino acid	CH ₃	O	6-N-acetyl-2-fluoro-8-methyladenine
amino acid	amino acid	CH ₃	O	6-N-acetyl-2-amino-8-methyladenine
amino acid	amino acid	CH ₃	O	2-N-acetyl-amino-8-methyladenine
amino acid	amino acid	CH ₃	O	2-N-acetyl-amino-8-methylthypoxanthine
amino acid	H	CH ₃	O	6-Methylthymine
amino acid	H	CH ₃	O	6-Methyluracil
amino acid	H	CH ₃	O	8-Methylguanine
amino acid	H	CH ₃	O	6-Methylcytosine
amino acid	H	CH ₃	O	8-Methyladenine
amino acid	H	CH ₃	O	8-Methylthypoxanthine
amino acid	H	CH ₃	O	5-Fluoro-6-methylcytosine
amino acid	H	CH ₃	O	5-Fluoro-6-methyluracil
amino acid	H	CH ₃	O	2-Fluoro-8-methyladenine
amino acid	H	CH ₃	O	2-Fluoro-8-methylthypoxanthine
amino acid	H	CH ₃	O	2-amino-8-methyladenine
amino acid	H	CH ₃	O	2-amino-8-methylthypoxanthine
amino acid	H	CH ₃	O	2-N-acetyl-8-methylguanine
amino acid	H	CH ₃	O	4-N-acetyl-8-methylcytosine
amino acid	H	CH ₃	O	6-N-acetyl-8-methyladenine
amino acid	H	CH ₃	O	4-N-acetyl-5-fluoro-8-methylcytosine
amino acid	H	CH ₃	O	6-N-acetyl-2-fluoro-8-methyladenine
amino acid	H	CH ₃	O	6-N-acetyl-2-amino-8-methyladenine
amino acid	H	CH ₃	O	2-N-acetyl-amino-8-methyladenine
amino acid	H	CH ₃	O	2-N-acetyl-amino-8-methylthypoxanthine
amino acid	acyl	CH ₃	O	6-Methylthymine
amino acid	acyl	CH ₃	O	6-Methyluracil
amino acid	acyl	CH ₃	O	8-Methylguanine
amino acid	acyl	CH ₃	O	6-Methylcytosine
amino acid	acyl	CH ₃	O	8-Methyladenine
amino acid	acyl	CH ₃	O	8-Methylthypoxanthine
amino acid	acyl	CH ₃	O	5-Fluoro-6-methylcytosine
amino acid	acyl	CH ₃	O	5-Fluoro-6-methyluracil
amino acid	acyl	CH ₃	O	2-Fluoro-8-methyladenine
amino acid	acyl	CH ₃	O	2-Fluoro-8-methylthypoxanthine

TABLE 3-continued

R ²	R ³	R ⁶	X	Base	
5	amino acid	acyl	CH ₃	O	2-amino-8-methyladenine
	amino acid	acyl	CH ₃	O	2-amino-8-methylhypoxanthine
	amino acid	acyl	CH ₃	O	2-N-acetyl-8-methylguanine
	amino acid	acyl	CH ₃	O	4-N-acetyl-8-methylcytosine
	amino acid	acyl	CH ₃	O	6-N-acetyl-8-methyladenine
	amino acid	acyl	CH ₃	O	4-N-acetyl-5-fluoro-8-methylcytosine
10	amino acid	acyl	CH ₃	O	6-N-acetyl-2-fluoro-8-methyladenine
	amino acid	acyl	CH ₃	O	6-N-acetyl-2-amino-8-methyladenine
	amino acid	acyl	CH ₃	O	2-N-acetyl-amino-8-methyladenine
15	amino acid	acyl	CH ₃	O	2-N-acetyl-amino-8-methylhypoxanthine
	acyl	H	CF ₃	O	6-Methylthymine
	acyl	H	CF ₃	O	6-Methyluracil
	acyl	H	CF ₃	O	8-Methylguanine
20	acyl	H	CF ₃	O	6-Methylcytosine
	acyl	H	CF ₃	O	8-Methyladenine
	acyl	H	CF ₃	O	8-Methylhypoxanthine
	acyl	H	CF ₃	O	5-Fluoro-6-methylcytosine
	acyl	H	CF ₃	O	5-Fluoro-6-methyluracil
	acyl	H	CF ₃	O	2-Fluoro-8-methyladenine
25	acyl	H	CF ₃	O	2-Fluoro-8-methylhypoxanthine
	acyl	H	CF ₃	O	2-amino-8-methyladenine
	acyl	H	CF ₃	O	2-amino-8-methylhypoxanthine
	acyl	H	CF ₃	O	2-N-acetyl-8-methylguanine
	acyl	H	CF ₃	O	4-N-acetyl-8-methylcytosine
	acyl	H	CF ₃	O	6-N-acetyl-8-methyladenine
	acyl	H	CF ₃	O	4-N-acetyl-5-fluoro-8-methylcytosine
30	acyl	H	CF ₃	O	6-N-acetyl-2-fluoro-8-methyladenine
	acyl	H	CF ₃	O	6-N-acetyl-2-amino-8-methyladenine
	acyl	H	CF ₃	O	2-N-acetyl-amino-8-methyladenine
35	acyl	H	CF ₃	O	2-N-acetyl-amino-8-methylhypoxanthine
	acyl	acyl	CF ₃	O	6-Methylthymine
	acyl	acyl	CF ₃	O	6-Methyluracil
	acyl	acyl	CF ₃	O	8-Methylguanine
40	acyl	acyl	CF ₃	O	6-Methylcytosine
	acyl	acyl	CF ₃	O	8-Methyladenine
	acyl	acyl	CF ₃	O	8-Methylhypoxanthine
	acyl	acyl	CF ₃	O	5-Fluoro-6-methylcytosine
	acyl	acyl	CF ₃	O	5-Fluoro-6-methyluracil
	acyl	acyl	CF ₃	O	2-Fluoro-8-methyladenine
45	acyl	acyl	CF ₃	O	2-Fluoro-8-methylhypoxanthine
	acyl	acyl	CF ₃	O	2-amino-8-methyladenine
	acyl	acyl	CF ₃	O	2-amino-8-methylhypoxanthine
	acyl	acyl	CF ₃	O	2-N-acetyl-8-methylguanine
	acyl	acyl	CF ₃	O	4-N-acetyl-8-methylcytosine
	acyl	acyl	CF ₃	O	6-N-acetyl-8-methyladenine
	acyl	acyl	CF ₃	O	4-N-acetyl-5-fluoro-8-methylcytosine
50	acyl	acyl	CF ₃	O	6-N-acetyl-2-fluoro-8-methyladenine
	acyl	acyl	CF ₃	O	6-N-acetyl-2-amino-8-methyladenine
	acyl	acyl	CF ₃	O	2-N-acetyl-amino-8-methyladenine
55	acyl	acyl	CF ₃	O	2-N-acetyl-amino-8-methylhypoxanthine
	acyl	amino acid	CF ₃	O	6-Methylthymine
	acyl	amino acid	CF ₃	O	6-Methyluracil
	acyl	amino acid	CF ₃	O	8-Methylguanine
60	acyl	amino acid	CF ₃	O	6-Methylcytosine
	acyl	amino acid	CF ₃	O	8-Methyladenine
	acyl	amino acid	CF ₃	O	8-Methylhypoxanthine
	acyl	amino acid	CF ₃	O	5-Fluoro-6-methylcytosine
	acyl	amino acid	CF ₃	O	5-Fluoro-6-methyluracil
	acyl	amino acid	CF ₃	O	2-Fluoro-8-methyladenine
65	acyl	amino acid	CF ₃	O	2-Fluoro-8-methylhypoxanthine
	acyl	amino acid	CF ₃	O	2-amino-8-methyladenine
	acyl	amino acid	CF ₃	O	2-amino-8-methylhypoxanthine

TABLE 3-continued

R ²	R ³	R ⁶	X	Base
acyl	amino acid	CF ₃	O	2-N-acetyl-8-methylguanine
acyl	amino acid	CF ₃	O	4-N-acetyl-8-methylcytosine
acyl	amino acid	CF ₃	O	6-N-acetyl-8-methyladenine
acyl	amino acid	CF ₃	O	4-N-acetyl-5-fluoro-8-methylcytosine
acyl	amino acid	CF ₃	O	6-N-acetyl-2-fluoro-8-methyladenine
acyl	amino acid	CF ₃	O	6-N-acetyl-2-amino-8-methyladenine
acyl	amino acid	CF ₃	O	2-N-acetyl-amino-8-methyladenine
acyl	amino acid	CF ₃	O	2-N-acetyl-amino-8-methylhypoxanthine
H	acyl	CF ₃	O	6-Methylthymine
H	acyl	CF ₃	O	6-Methyluracil
H	acyl	CF ₃	O	8-Methylguanine
H	acyl	CF ₃	O	6-Methylcytosine
H	acyl	CF ₃	O	8-Methyladenine
H	acyl	CF ₃	O	8-Methylhypoxanthine
H	acyl	CF ₃	O	5-Fluoro-6-methylcytosine
H	acyl	CF ₃	O	5-Fluoro-6-methyluracil
H	acyl	CF ₃	O	2-Fluoro-8-methyladenine
H	acyl	CF ₃	O	2-Fluoro-8-methylhypoxanthine
H	acyl	CF ₃	O	2-amino-8-methyladenine
H	acyl	CF ₃	O	2-amino-8-methylhypoxanthine
H	acyl	CF ₃	O	2-N-acetyl-8-methylguanine
H	acyl	CF ₃	O	4-N-acetyl-8-methylcytosine
H	acyl	CF ₃	O	6-N-acetyl-8-methyladenine
H	acyl	CF ₃	O	4-N-acetyl-5-fluoro-8-methylcytosine
H	acyl	CF ₃	O	6-N-acetyl-2-fluoro-8-methyladenine
H	acyl	CF ₃	O	6-N-acetyl-2-amino-8-methyladenine
H	acyl	CF ₃	O	2-N-acetyl-amino-8-methyladenine
H	acyl	CF ₃	O	2-N-acetyl-amino-8-methylhypoxanthine
H	amino acid	CF ₃	O	6-Methylthymine
H	amino acid	CF ₃	O	6-Methyluracil
H	amino acid	CF ₃	O	8-Methylguanine
H	amino acid	CF ₃	O	6-Methylcytosine
H	amino acid	CF ₃	O	8-Methyladenine
H	amino acid	CF ₃	O	8-Methylhypoxanthine
H	amino acid	CF ₃	O	5-Fluoro-6-methylcytosine
H	amino acid	CF ₃	O	5-Fluoro-6-methyluracil
H	amino acid	CF ₃	O	2-Fluoro-8-methyladenine
H	amino acid	CF ₃	O	2-Fluoro-8-methylhypoxanthine
H	amino acid	CF ₃	O	2-amino-8-methyladenine
H	amino acid	CF ₃	O	2-amino-8-methylhypoxanthine
H	amino acid	CF ₃	O	2-N-acetyl-8-methylguanine
H	amino acid	CF ₃	O	4-N-acetyl-8-methylcytosine
H	amino acid	CF ₃	O	6-N-acetyl-8-methyladenine
H	amino acid	CF ₃	O	4-N-acetyl-5-fluoro-8-methylcytosine
H	amino acid	CF ₃	O	6-N-acetyl-2-fluoro-8-methyladenine
H	amino acid	CF ₃	O	6-N-acetyl-2-amino-8-methyladenine
H	amino acid	CF ₃	O	2-N-acetyl-amino-8-methyladenine
H	amino acid	CF ₃	O	2-N-acetyl-amino-8-methylhypoxanthine
amino acid	amino acid	CF ₃	O	6-Methylthymine
amino acid	amino acid	CF ₃	O	6-Methyluracil
amino acid	amino acid	CF ₃	O	8-Methylguanine
amino acid	amino acid	CF ₃	O	6-Methylcytosine
amino acid	amino acid	CF ₃	O	8-Methyladenine
amino acid	amino acid	CF ₃	O	8-Methylhypoxanthine
amino acid	amino acid	CF ₃	O	5-Fluoro-6-methylcytosine
amino acid	amino acid	CF ₃	O	5-Fluoro-6-methyluracil
amino acid	amino acid	CF ₃	O	2-Fluoro-8-methyladenine
amino acid	amino acid	CF ₃	O	2-Fluoro-8-methylhypoxanthine
amino acid	amino acid	CF ₃	O	2-amino-8-methyladenine
amino acid	amino acid	CF ₃	O	2-amino-8-methylhypoxanthine
amino acid	amino acid	CF ₃	O	2-N-acetyl-8-methylguanine
amino acid	amino acid	CF ₃	O	4-N-acetyl-8-methylcytosine
amino acid	amino acid	CF ₃	O	6-N-acetyl-8-methyladenine
amino acid	amino acid	CF ₃	O	4-N-acetyl-5-fluoro-8-methylcytosine

TABLE 3-continued

R ²	R ³	R ⁶	X	Base	
5	amino acid	amino acid	CF ₃	O	6-N-acetyl-8-methyladenine
	amino acid	amino acid	CF ₃	O	4-N-acetyl-5-fluoro-8-methylcytosine
	amino acid	amino acid	CF ₃	O	6-N-acetyl-2-fluoro-8-methyladenine
10	amino acid	amino acid	CF ₃	O	6-N-acetyl-2-amino-8-methyladenine
	amino acid	amino acid	CF ₃	O	2-N-acetyl-amino-8-methyladenine
	amino acid	amino acid	CF ₃	O	2-N-acetyl-amino-8-methylhypoxanthine
15	amino acid	H	CF ₃	O	6-Methylthymine
	amino acid	H	CF ₃	O	6-Methyluracil
	amino acid	H	CF ₃	O	8-Methylguanine
	amino acid	H	CF ₃	O	6-Methylcytosine
	amino acid	H	CF ₃	O	8-Methyladenine
	amino acid	H	CF ₃	O	8-Methylhypoxanthine
20	amino acid	H	CF ₃	O	5-Fluoro-6-methylcytosine
	amino acid	H	CF ₃	O	5-Fluoro-6-methyluracil
	amino acid	H	CF ₃	O	2-Fluoro-8-methyladenine
	amino acid	H	CF ₃	O	2-Fluoro-8-methylhypoxanthine
	amino acid	H	CF ₃	O	2-amino-8-methyladenine
	amino acid	H	CF ₃	O	2-amino-8-methylhypoxanthine
25	amino acid	H	CF ₃	O	2-N-acetyl-8-methylguanine
	amino acid	H	CF ₃	O	4-N-acetyl-8-methylcytosine
	amino acid	H	CF ₃	O	6-N-acetyl-8-methyladenine
	amino acid	H	CF ₃	O	4-N-acetyl-5-fluoro-8-methylcytosine
	amino acid	H	CF ₃	O	6-N-acetyl-2-fluoro-8-methyladenine
	amino acid	H	CF ₃	O	6-N-acetyl-2-amino-8-methyladenine
30	amino acid	H	CF ₃	O	6-N-acetyl-2-amino-8-methyladenine
	amino acid	H	CF ₃	O	2-N-acetyl-amino-8-methyladenine
	amino acid	H	CF ₃	O	2-N-acetyl-amino-8-methylhypoxanthine
35	amino acid	acyl	CF ₃	O	6-Methylthymine
	amino acid	acyl	CF ₃	O	6-Methyluracil
	amino acid	acyl	CF ₃	O	8-Methylguanine
	amino acid	acyl	CF ₃	O	6-Methylcytosine
	amino acid	acyl	CF ₃	O	8-Methyladenine
	amino acid	acyl	CF ₃	O	8-Methylhypoxanthine
40	amino acid	acyl	CF ₃	O	5-Fluoro-6-methylcytosine
	amino acid	acyl	CF ₃	O	5-Fluoro-6-methyluracil
	amino acid	acyl	CF ₃	O	2-Fluoro-8-methyladenine
	amino acid	acyl	CF ₃	O	2-Fluoro-8-methylhypoxanthine
	amino acid	acyl	CF ₃	O	2-amino-8-methyladenine
	amino acid	acyl	CF ₃	O	2-amino-8-methylhypoxanthine
45	amino acid	acyl	CF ₃	O	2-N-acetyl-8-methylguanine
	amino acid	acyl	CF ₃	O	4-N-acetyl-8-methylcytosine
	amino acid	acyl	CF ₃	O	6-N-acetyl-8-methyladenine
	amino acid	acyl	CF ₃	O	4-N-acetyl-5-fluoro-8-methylcytosine
	amino acid	acyl	CF ₃	O	6-N-acetyl-2-fluoro-8-methyladenine
	amino acid	acyl	CF ₃	O	6-N-acetyl-2-amino-8-methyladenine
50	amino acid	acyl	CF ₃	O	6-N-acetyl-2-amino-8-methyladenine
	amino acid	acyl	CF ₃	O	2-N-acetyl-amino-8-methyladenine
	amino acid	acyl	CF ₃	O	2-N-acetyl-amino-8-methylhypoxanthine
55	acyl	H	CH ₃	S	6-Methylthymine
	acyl	H	CH ₃	S	6-Methyluracil
	acyl	H	CH ₃	S	8-Methylguanine
	acyl	H	CH ₃	S	6-Methylcytosine
	acyl	H	CH ₃	S	8-Methyladenine
	acyl	H	CH ₃	S	8-Methylhypoxanthine
60	acyl	H	CH ₃	S	5-Fluoro-6-methylcytosine
	acyl	H	CH ₃	S	5-Fluoro-6-methyluracil
	acyl	H	CH ₃	S	2-Fluoro-8-methyladenine
	acyl	H	CH ₃	S	2-Fluoro-8-methylhypoxanthine
	acyl	H	CH ₃	S	2-amino-8-methyladenine
	acyl	H	CH ₃	S	2-amino-8-methylhypoxanthine
65	acyl	H	CH ₃	S	2-N-acetyl-8-methylguanine
	acyl	H	CH ₃	S	4-N-acetyl-8-methylcytosine
	acyl	H	CH ₃	S	6-N-acetyl-8-methyladenine

TABLE 3-continued

R ²	R ³	R ⁶	X	Base
acyl	H	CH ₃	S	4-N-acetyl-5-fluoro-8-methylcytosine
acyl	H	CH ₃	S	6-N-acetyl-2-fluoro-8-methyladenine
acyl	H	CH ₃	S	6-N-acetyl-2-amino-8-methyladenine
acyl	H	CH ₃	S	2-N-acetylamino-8-methyladenine
acyl	H	CH ₃	S	2-N-acetylamino-8-methylhypoxanthine
acyl	acyl	CH ₃	S	6-Methylthymine
acyl	acyl	CH ₃	S	6-Methyluracil
acyl	acyl	CH ₃	S	8-Methylguanine
acyl	acyl	CH ₃	S	6-Methylcytosine
acyl	acyl	CH ₃	S	8-Methyladenine
acyl	acyl	CH ₃	S	8-Methylhypoxanthine
acyl	acyl	CH ₃	S	5-Fluoro-6-methylcytosine
acyl	acyl	CH ₃	S	5-Fluoro-6-methyluracil
acyl	acyl	CH ₃	S	2-Fluoro-8-methyladenine
acyl	acyl	CH ₃	S	2-Fluoro-8-methylhypoxanthine
acyl	acyl	CH ₃	S	2-amino-8-methyladenine
acyl	acyl	CH ₃	S	2-amino-8-methylhypoxanthine
acyl	acyl	CH ₃	S	2-N-acetyl-8-methylguanine
acyl	acyl	CH ₃	S	4-N-acetyl-8-methylcytosine
acyl	acyl	CH ₃	S	6-N-acetyl-8-methyladenine
acyl	acyl	CH ₃	S	4-N-acetyl-5-fluoro-8-methylcytosine
acyl	acyl	CH ₃	S	6-N-acetyl-2-fluoro-8-methyladenine
acyl	acyl	CH ₃	S	6-N-acetyl-2-amino-8-methyladenine
acyl	acyl	CH ₃	S	2-N-acetylamino-8-methyladenine
acyl	acyl	CH ₃	S	2-N-acetylamino-8-methylhypoxanthine
acyl	amino acid	CH ₃	S	6-Methylthymine
acyl	amino acid	CH ₃	S	6-Methyluracil
acyl	amino acid	CH ₃	S	8-Methylguanine
acyl	amino acid	CH ₃	S	6-Methylcytosine
acyl	amino acid	CH ₃	S	8-Methyladenine
acyl	amino acid	CH ₃	S	8-Methylhypoxanthine
acyl	amino acid	CH ₃	S	5-Fluoro-6-methylcytosine
acyl	amino acid	CH ₃	S	5-Fluoro-6-methyluracil
acyl	amino acid	CH ₃	S	2-Fluoro-8-methyladenine
acyl	amino acid	CH ₃	S	2-Fluoro-8-methylhypoxanthine
acyl	amino acid	CH ₃	S	2-amino-8-methyladenine
acyl	amino acid	CH ₃	S	2-amino-8-methylhypoxanthine
acyl	amino acid	CH ₃	S	2-N-acetyl-8-methylguanine
acyl	amino acid	CH ₃	S	4-N-acetyl-8-methylcytosine
acyl	amino acid	CH ₃	S	6-N-acetyl-8-methyladenine
acyl	amino acid	CH ₃	S	4-N-acetyl-5-fluoro-8-methylcytosine
acyl	amino acid	CH ₃	S	6-N-acetyl-2-fluoro-8-methyladenine
acyl	amino acid	CH ₃	S	6-N-acetyl-2-amino-8-methyladenine
acyl	amino acid	CH ₃	S	2-N-acetylamino-8-methyladenine
acyl	amino acid	CH ₃	S	2-N-acetylamino-8-methylhypoxanthine
H	acyl	CH ₃	S	6-Methylthymine
H	acyl	CH ₃	S	6-Methyluracil
H	acyl	CH ₃	S	8-Methylguanine
H	acyl	CH ₃	S	6-Methylcytosine
H	acyl	CH ₃	S	8-Methyladenine
H	acyl	CH ₃	S	8-Methylhypoxanthine
H	acyl	CH ₃	S	5-Fluoro-6-methylcytosine
H	acyl	CH ₃	S	5-Fluoro-6-methyluracil
H	acyl	CH ₃	S	2-Fluoro-8-methyladenine
H	acyl	CH ₃	S	2-Fluoro-8-methylhypoxanthine
H	acyl	CH ₃	S	2-amino-8-methyladenine
H	acyl	CH ₃	S	2-amino-8-methylhypoxanthine
H	acyl	CH ₃	S	2-N-acetyl-8-methylguanine
H	acyl	CH ₃	S	4-N-acetyl-8-methylcytosine
H	acyl	CH ₃	S	6-N-acetyl-8-methyladenine
H	acyl	CH ₃	S	4-N-acetyl-5-fluoro-8-methylcytosine

TABLE 3-continued

R ²	R ³	R ⁶	X	Base
5 H	acyl	CH ₃	S	6-N-acetyl-2-fluoro-8-methyladenine
H	acyl	CH ₃	S	6-N-acetyl-2-amino-8-methyladenine
H	acyl	CH ₃	S	2-N-acetylamino-8-methyladenine
10 H	acyl	CH ₃	S	2-N-acetylamino-8-methylhypoxanthine
H	amino acid	CH ₃	S	6-Methylthymine
H	amino acid	CH ₃	S	6-Methyluracil
H	amino acid	CH ₃	S	8-Methylguanine
H	amino acid	CH ₃	S	6-Methylcytosine
15 H	amino acid	CH ₃	S	8-Methyladenine
H	amino acid	CH ₃	S	8-Methylhypoxanthine
H	amino acid	CH ₃	S	5-Fluoro-6-methylcytosine
H	amino acid	CH ₃	S	5-Fluoro-6-methyluracil
H	amino acid	CH ₃	S	2-Fluoro-8-methyladenine
H	amino acid	CH ₃	S	2-Fluoro-8-methylhypoxanthine
20 H	amino acid	CH ₃	S	2-amino-8-methyladenine
H	amino acid	CH ₃	S	2-amino-8-methylhypoxanthine
H	amino acid	CH ₃	S	2-N-acetyl-8-methylguanine
H	amino acid	CH ₃	S	4-N-acetyl-8-methylcytosine
H	amino acid	CH ₃	S	6-N-acetyl-8-methyladenine
25 H	amino acid	CH ₃	S	4-N-acetyl-5-fluoro-8-methylcytosine
H	amino acid	CH ₃	S	6-N-acetyl-2-fluoro-8-methyladenine
H	amino acid	CH ₃	S	6-N-acetyl-2-amino-8-methyladenine
H	amino acid	CH ₃	S	2-N-acetylamino-8-methyladenine
30 H	amino acid	CH ₃	S	2-N-acetylamino-8-methylhypoxanthine
amino acid	amino acid	CH ₃	S	6-Methylthymine
amino acid	amino acid	CH ₃	S	6-Methyluracil
amino acid	amino acid	CH ₃	S	8-Methylguanine
amino acid	amino acid	CH ₃	S	6-Methylcytosine
35 amino acid	amino acid	CH ₃	S	8-Methyladenine
amino acid	amino acid	CH ₃	S	8-Methylhypoxanthine
amino acid	amino acid	CH ₃	S	5-Fluoro-6-methylcytosine
amino acid	amino acid	CH ₃	S	5-Fluoro-6-methyluracil
amino acid	amino acid	CH ₃	S	2-Fluoro-8-methyladenine
amino acid	amino acid	CH ₃	S	2-Fluoro-8-methylhypoxanthine
40 amino acid	amino acid	CH ₃	S	2-amino-8-methyladenine
amino acid	amino acid	CH ₃	S	2-amino-8-methylhypoxanthine
amino acid	amino acid	CH ₃	S	2-N-acetyl-8-methylguanine
amino acid	amino acid	CH ₃	S	4-N-acetyl-8-methylcytosine
amino acid	amino acid	CH ₃	S	6-N-acetyl-8-methyladenine
45 amino acid	amino acid	CH ₃	S	4-N-acetyl-5-fluoro-8-methylcytosine
amino acid	amino acid	CH ₃	S	6-N-acetyl-2-fluoro-8-methyladenine
amino acid	amino acid	CH ₃	S	6-N-acetyl-2-amino-8-methyladenine
amino acid	amino acid	CH ₃	S	2-N-acetylamino-8-methyladenine
50 amino acid	amino acid	CH ₃	S	2-N-acetylamino-8-methylhypoxanthine
amino acid	H	CH ₃	S	6-Methylthymine
amino acid	H	CH ₃	S	6-Methyluracil
amino acid	H	CH ₃	S	8-Methylguanine
amino acid	H	CH ₃	S	6-Methylcytosine
55 amino acid	H	CH ₃	S	8-Methyladenine
amino acid	H	CH ₃	S	8-Methylhypoxanthine
amino acid	H	CH ₃	S	5-Fluoro-6-methylcytosine
amino acid	H	CH ₃	S	5-Fluoro-6-methyluracil
amino acid	H	CH ₃	S	2-Fluoro-8-methyladenine
amino acid	H	CH ₃	S	2-Fluoro-8-methylhypoxanthine
60 amino acid	H	CH ₃	S	2-amino-8-methyladenine
amino acid	H	CH ₃	S	2-amino-8-methylhypoxanthine
amino acid	H	CH ₃	S	2-N-acetyl-8-methylguanine
amino acid	H	CH ₃	S	4-N-acetyl-8-methylcytosine
amino acid	H	CH ₃	S	6-N-acetyl-8-methyladenine
65 amino acid	H	CH ₃	S	4-N-acetyl-5-fluoro-8-methylcytosine
amino acid	H	CH ₃	S	6-N-acetyl-2-fluoro-8-methyladenine

TABLE 3-continued

R ²	R ³	R ⁶	X	Base
amino acid	H	CH ₃	S	6-N-acetyl-2-amino-8-methyladenine
amino acid	H	CH ₃	S	2-N-acetylamino-8-methyladenine
amino acid	H	CH ₃	S	2-N-acetylamino-8-methylhypoxanthine
amino acid	acyl	CH ₃	S	6-Methylthymine
amino acid	acyl	CH ₃	S	6-Methyluracil
amino acid	acyl	CH ₃	S	8-Methylguanine
amino acid	acyl	CH ₃	S	6-Methylcytosine
amino acid	acyl	CH ₃	S	8-Methyladenine
amino acid	acyl	CH ₃	S	8-Methylhypoxanthine
amino acid	acyl	CH ₃	S	5-Fluoro-6-methylcytosine
amino acid	acyl	CH ₃	S	5-Fluoro-6-methyluracil
amino acid	acyl	CH ₃	S	2-Fluoro-8-methyladenine
amino acid	acyl	CH ₃	S	2-Fluoro-8-methylhypoxanthine
amino acid	acyl	CH ₃	S	2-amino-8-methyladenine
amino acid	acyl	CH ₃	S	2-amino-8-methylhypoxanthine
amino acid	acyl	CH ₃	S	2-N-acetyl-8-methylguanine
amino acid	acyl	CH ₃	S	4-N-acetyl-8-methylcytosine
amino acid	acyl	CH ₃	S	6-N-acetyl-8-methyladenine
amino acid	acyl	CH ₃	S	4-N-acetyl-5-fluoro-8-methylcytosine
amino acid	acyl	CH ₃	S	6-N-acetyl-2-fluoro-8-methyladenine
amino acid	acyl	CH ₃	S	6-N-acetyl-2-amino-8-methyladenine
amino acid	acyl	CH ₃	S	2-N-acetylamino-8-methyladenine
amino acid	acyl	CH ₃	S	2-N-acetylamino-8-methylhypoxanthine
acyl	H	CF ₃	S	6-Methylthymine
acyl	H	CF ₃	S	6-Methyluracil
acyl	H	CF ₃	S	8-Methylguanine
acyl	H	CF ₃	S	6-Methylcytosine
acyl	H	CF ₃	S	8-Methyladenine
acyl	H	CF ₃	S	8-Methylhypoxanthine
acyl	H	CF ₃	S	5-Fluoro-6-methylcytosine
acyl	H	CF ₃	S	5-Fluoro-6-methyluracil
acyl	H	CF ₃	S	2-Fluoro-8-methyladenine
acyl	H	CF ₃	S	2-Fluoro-8-methylhypoxanthine
acyl	H	CF ₃	S	2-amino-8-methyladenine
acyl	H	CF ₃	S	2-amino-8-methylhypoxanthine
acyl	H	CF ₃	S	2-N-acetyl-8-methylguanine
acyl	H	CF ₃	S	4-N-acetyl-8-methylcytosine
acyl	H	CF ₃	S	6-N-acetyl-8-methyladenine
acyl	H	CF ₃	S	4-N-acetyl-5-fluoro-8-methylcytosine
acyl	H	CF ₃	S	6-N-acetyl-2-fluoro-8-methyladenine
acyl	H	CF ₃	S	6-N-acetyl-2-amino-8-methyladenine
acyl	H	CF ₃	S	2-N-acetylamino-8-methyladenine
acyl	H	CF ₃	S	2-N-acetylamino-8-methylhypoxanthine
acyl	acyl	CF ₃	S	6-Methylthymine
acyl	acyl	CF ₃	S	6-Methyluracil
acyl	acyl	CF ₃	S	8-Methylguanine
acyl	acyl	CF ₃	S	6-Methylcytosine
acyl	acyl	CF ₃	S	8-Methyladenine
acyl	acyl	CF ₃	S	8-Methylhypoxanthine
acyl	acyl	CF ₃	S	5-Fluoro-6-methylcytosine
acyl	acyl	CF ₃	S	5-Fluoro-6-methyluracil
acyl	acyl	CF ₃	S	2-Fluoro-8-methyladenine
acyl	acyl	CF ₃	S	2-Fluoro-8-methylhypoxanthine
acyl	acyl	CF ₃	S	2-amino-8-methyladenine
acyl	acyl	CF ₃	S	2-amino-8-methylhypoxanthine
acyl	acyl	CF ₃	S	2-N-acetyl-8-methylguanine
acyl	acyl	CF ₃	S	4-N-acetyl-8-methylcytosine
acyl	acyl	CF ₃	S	6-N-acetyl-8-methyladenine
acyl	acyl	CF ₃	S	4-N-acetyl-5-fluoro-8-methylcytosine
acyl	acyl	CF ₃	S	6-N-acetyl-2-fluoro-8-methyladenine
acyl	acyl	CF ₃	S	6-N-acetyl-2-amino-8-methyladenine
acyl	acyl	CF ₃	S	2-N-acetylamino-8-methyladenine

TABLE 3-continued

R ²	R ³	R ⁶	X	Base
acyl	acyl	CF ₃	S	2-N-acetylamino-8-methyladenine
acyl	acyl	CF ₃	S	2-N-acetylamino-8-methylhypoxanthine
acyl	amino acid	CF ₃	S	6-Methylthymine
acyl	amino acid	CF ₃	S	6-Methyluracil
acyl	amino acid	CF ₃	S	8-Methylguanine
acyl	amino acid	CF ₃	S	6-Methylcytosine
acyl	amino acid	CF ₃	S	8-Methyladenine
acyl	amino acid	CF ₃	S	8-Methylhypoxanthine
acyl	amino acid	CF ₃	S	5-Fluoro-6-methylcytosine
acyl	amino acid	CF ₃	S	5-Fluoro-6-methyluracil
acyl	amino acid	CF ₃	S	2-Fluoro-8-methyladenine
acyl	amino acid	CF ₃	S	2-Fluoro-8-methylhypoxanthine
acyl	amino acid	CF ₃	S	2-amino-8-methyladenine
acyl	amino acid	CF ₃	S	2-amino-8-methylhypoxanthine
acyl	amino acid	CF ₃	S	2-N-acetyl-8-methylguanine
acyl	amino acid	CF ₃	S	4-N-acetyl-8-methylcytosine
acyl	amino acid	CF ₃	S	6-N-acetyl-8-methyladenine
acyl	amino acid	CF ₃	S	4-N-acetyl-5-fluoro-8-methylcytosine
acyl	amino acid	CF ₃	S	6-N-acetyl-2-fluoro-8-methyladenine
acyl	amino acid	CF ₃	S	6-N-acetyl-2-amino-8-methyladenine
acyl	amino acid	CF ₃	S	2-N-acetylamino-8-methyladenine
acyl	amino acid	CF ₃	S	2-N-acetylamino-8-methylhypoxanthine
H	acyl	CF ₃	S	6-Methylthymine
H	acyl	CF ₃	S	6-Methyluracil
H	acyl	CF ₃	S	8-Methylguanine
H	acyl	CF ₃	S	6-Methylcytosine
H	acyl	CF ₃	S	8-Methyladenine
H	acyl	CF ₃	S	8-Methylhypoxanthine
H	acyl	CF ₃	S	5-Fluoro-6-methylcytosine
H	acyl	CF ₃	S	5-Fluoro-6-methyluracil
H	acyl	CF ₃	S	2-Fluoro-8-methyladenine
H	acyl	CF ₃	S	2-Fluoro-8-methylhypoxanthine
H	acyl	CF ₃	S	2-amino-8-methyladenine
H	acyl	CF ₃	S	2-amino-8-methylhypoxanthine
H	acyl	CF ₃	S	2-N-acetyl-8-methylguanine
H	acyl	CF ₃	S	4-N-acetyl-8-methylcytosine
H	acyl	CF ₃	S	6-N-acetyl-8-methyladenine
H	acyl	CF ₃	S	4-N-acetyl-5-fluoro-8-methylcytosine
H	acyl	CF ₃	S	6-N-acetyl-2-fluoro-8-methyladenine
H	acyl	CF ₃	S	6-N-acetyl-2-amino-8-methyladenine
H	acyl	CF ₃	S	2-N-acetylamino-8-methyladenine
H	acyl	CF ₃	S	2-N-acetylamino-8-methylhypoxanthine
H	amino acid	CF ₃	S	6-Methylthymine
H	amino acid	CF ₃	S	6-Methyluracil
H	amino acid	CF ₃	S	8-Methylguanine
H	amino acid	CF ₃	S	6-Methylcytosine
H	amino acid	CF ₃	S	8-Methyladenine
H	amino acid	CF ₃	S	8-Methylhypoxanthine
H	amino acid	CF ₃	S	5-Fluoro-6-methylcytosine
H	amino acid	CF ₃	S	5-Fluoro-6-methyluracil
H	amino acid	CF ₃	S	2-Fluoro-8-methyladenine
H	amino acid	CF ₃	S	2-Fluoro-8-methylhypoxanthine
H	amino acid	CF ₃	S	2-amino-8-methyladenine
H	amino acid	CF ₃	S	2-amino-8-methylhypoxanthine
H	amino acid	CF ₃	S	2-N-acetyl-8-methylguanine
H	amino acid	CF ₃	S	4-N-acetyl-8-methylcytosine
H	amino acid	CF ₃	S	6-N-acetyl-8-methyladenine
H	amino acid	CF ₃	S	4-N-acetyl-5-fluoro-8-methylcytosine
H	amino acid	CF ₃	S	6-N-acetyl-2-fluoro-8-methyladenine
H	amino acid	CF ₃	S	6-N-acetyl-2-amino-8-methyladenine
H	amino acid	CF ₃	S	2-N-acetylamino-8-methyladenine

TABLE 3-continued

R ²	R ³	R ⁶	X	Base
H	amino acid	CF ₃	S	2-N-acetylamino-8-methylhypoxanthine
amino acid	amino acid	CF ₃	S	6-Methylthymine
amino acid	amino acid	CF ₃	S	6-Methyluracil
amino acid	amino acid	CF ₃	S	8-Methylguanine
amino acid	amino acid	CF ₃	S	6-Methylcytosine
amino acid	amino acid	CF ₃	S	8-Methyladenine
amino acid	amino acid	CF ₃	S	8-Methylhypoxanthine
amino acid	amino acid	CF ₃	S	5-Fluoro-6-methylcytosine
amino acid	amino acid	CF ₃	S	5-Fluoro-6-methyluracil
amino acid	amino acid	CF ₃	S	2-Fluoro-8-methyladenine
amino acid	amino acid	CF ₃	S	2-Fluoro-8-methylhypoxanthine
amino acid	amino acid	CF ₃	S	2-amino-8-methyladenine
amino acid	amino acid	CF ₃	S	2-amino-8-methylhypoxanthine
amino acid	amino acid	CF ₃	S	2-N-acetyl-8-methylguanine
amino acid	amino acid	CF ₃	S	4-N-acetyl-8-methylcytosine
amino acid	amino acid	CF ₃	S	6-N-acetyl-8-methyladenine
amino acid	amino acid	CF ₃	S	4-N-acetyl-5-fluoro-8-methylcytosine
amino acid	amino acid	CF ₃	S	6-N-acetyl-2-fluoro-8-methyladenine
amino acid	amino acid	CF ₃	S	6-N-acetyl-2-amino-8-methyladenine
amino acid	amino acid	CF ₃	S	2-N-acetylamino-8-methyladenine
amino acid	amino acid	CF ₃	S	2-N-acetylamino-8-methylhypoxanthine
amino acid	H	CF ₃	S	6-Methylthymine
amino acid	H	CF ₃	S	6-Methyluracil
amino acid	H	CF ₃	S	8-Methylguanine
amino acid	H	CF ₃	S	6-Methylcytosine
amino acid	H	CF ₃	S	8-Methyladenine
amino acid	H	CF ₃	S	8-Methylhypoxanthine
amino acid	H	CF ₃	S	5-Fluoro-6-methylcytosine
amino acid	H	CF ₃	S	5-Fluoro-6-methyluracil
amino acid	H	CF ₃	S	2-Fluoro-8-methyladenine
amino acid	H	CF ₃	S	2-Fluoro-8-methylhypoxanthine
amino acid	H	CF ₃	S	2-amino-8-methyladenine
amino acid	H	CF ₃	S	2-amino-8-methylhypoxanthine
amino acid	H	CF ₃	S	2-N-acetyl-8-methylguanine
amino acid	H	CF ₃	S	4-N-acetyl-8-methylcytosine
amino acid	H	CF ₃	S	6-N-acetyl-8-methyladenine
amino acid	H	CF ₃	S	4-N-acetyl-5-fluoro-8-methylcytosine
amino acid	H	CF ₃	S	6-N-acetyl-2-fluoro-8-methyladenine
amino acid	H	CF ₃	S	6-N-acetyl-2-amino-8-methyladenine
amino acid	H	CF ₃	S	2-N-acetylamino-8-methyladenine
amino acid	H	CF ₃	S	2-N-acetylamino-8-methylhypoxanthine
amino acid	acyl	CF ₃	S	6-Methylthymine
amino acid	acyl	CF ₃	S	6-Methyluracil
amino acid	acyl	CF ₃	S	8-Methylguanine
amino acid	acyl	CF ₃	S	6-Methylcytosine
amino acid	acyl	CF ₃	S	8-Methyladenine
amino acid	acyl	CF ₃	S	8-Methylhypoxanthine
amino acid	acyl	CF ₃	S	5-Fluoro-6-methylcytosine
amino acid	acyl	CF ₃	S	5-Fluoro-6-methyluracil
amino acid	acyl	CF ₃	S	2-Fluoro-8-methyladenine
amino acid	acyl	CF ₃	S	2-Fluoro-8-methylhypoxanthine
amino acid	acyl	CF ₃	S	2-amino-8-methyladenine
amino acid	acyl	CF ₃	S	2-amino-8-methylhypoxanthine
amino acid	acyl	CF ₃	S	2-N-acetyl-8-methylguanine
amino acid	acyl	CF ₃	S	4-N-acetyl-8-methylcytosine
amino acid	acyl	CF ₃	S	6-N-acetyl-8-methyladenine
amino acid	acyl	CF ₃	S	4-N-acetyl-5-fluoro-8-methylcytosine
amino acid	acyl	CF ₃	S	6-N-acetyl-2-fluoro-8-methyladenine
amino acid	acyl	CF ₃	S	6-N-acetyl-2-amino-8-methyladenine
amino acid	acyl	CF ₃	S	2-N-acetylamino-8-methyladenine
amino acid	acyl	CF ₃	S	2-N-acetylamino-8-methylhypoxanthine

TABLE 3-continued

	R ²	R ³	R ⁶	X	Base
5	amino acid	acyl	CF ₃	S	2-N-acetyl-amino-8-methylhypoxanthine
10	TABLE 4				
	R ²	R ⁶	X	Base	
15	acyl	CH ₃	O	6-Methylthymine	
	acyl	CH ₃	O	6-Methyluracil	
	acyl	CH ₃	O	8-Methylguanine	
	acyl	CH ₃	O	6-Methylcytosine	
	acyl	CH ₃	O	8-Methyladenine	
	acyl	CH ₃	O	8-Methylhypoxanthine	
	acyl	CH ₃	O	5-Fluoro-6-methylcytosine	
	acyl	CH ₃	O	5-Fluoro-6-methyluracil	
	acyl	CH ₃	O	2-Fluoro-8-methyladenine	
20	acyl	CH ₃	O	2-Fluoro-8-methylhypoxanthine	
	acyl	CH ₃	O	2-amino-8-methyladenine	
	acyl	CH ₃	O	2-amino-8-methylhypoxanthine	
	acyl	CH ₃	O	2-N-acetyl-8-methylguanine	
	acyl	CH ₃	O	4-N-acetyl-8-methylcytosine	
	acyl	CH ₃	O	6-N-acetyl-8-methyladenine	
25	acyl	CH ₃	O	4-N-acetyl-5-fluoro-8-methylcytosine	
	acyl	CH ₃	O	6-N-acetyl-2-fluoro-8-methyladenine	
	acyl	CH ₃	O	6-N-acetyl-2-amino-8-methyladenine	
	acyl	CH ₃	O	2-N-acetylamino-8-methyladenine	
	acyl	CH ₃	O	2-N-acetylamino-8-methylhypoxanthine	
	amino acid	CH ₃	O	6-Methylthymine	
30	amino acid	CH ₃	O	6-Methyluracil	
	amino acid	CH ₃	O	8-Methylguanine	
	amino acid	CH ₃	O	6-Methylcytosine	
	amino acid	CH ₃	O	8-Methyladenine	
	amino acid	CH ₃	O	8-Methylhypoxanthine	
	amino acid	CH ₃	O	5-Fluoro-6-methylcytosine	
35	amino acid	CH ₃	O	5-Fluoro-6-methyluracil	
	amino acid	CH ₃	O	2-Fluoro-8-methyladenine	
	amino acid	CH ₃	O	2-Fluoro-8-methylhypoxanthine	
	amino acid	CH ₃	O	2-amino-8-methyladenine	
	amino acid	CH ₃	O	2-amino-8-methylhypoxanthine	
	amino acid	CH ₃	O	2-N-acetyl-8-methylguanine	
40	amino acid	CH ₃	O	4-N-acetyl-8-methylcytosine	
	amino acid	CH ₃	O	6-N-acetyl-8-methyladenine	
	amino acid	CH ₃	O	4-N-acetyl-5-fluoro-8-methylcytosine	
	amino acid	CH ₃	O	6-N-acetyl-2-fluoro-8-methyladenine	
	amino acid	CH ₃	O	6-N-acetyl-2-amino-8-methyladenine	
	amino acid	CH ₃	O	2-N-acetylamino-8-methyladenine	
45	amino acid	CH ₃	O	2-N-acetylamino-8-methylhypoxanthine	
	acyl	CF ₃	O	6-Methylthymine	
	acyl	CF ₃	O	6-Methyluracil	
	acyl	CF ₃	O	8-Methylguanine	
	acyl	CF ₃	O	6-Methylcytosine	
	acyl	CF ₃	O	8-Methyladenine	
50	acyl	CF ₃	O	8-Methylhypoxanthine	
	acyl	CF ₃	O	5-Fluoro-6-methylcytosine	
	acyl	CF ₃	O	5-Fluoro-6-methyluracil	
	acyl	CF ₃	O	2-Fluoro-8-methyladenine	
	acyl	CF ₃	O	2-Fluoro-8-methylhypoxanthine	
	acyl	CF ₃	O	2-amino-8-methyladenine	
55	acyl	CF ₃	O	2-amino-8-methylhypoxanthine	
	acyl	CF ₃	O	2-N-acetyl-8-methylguanine	
	acyl	CF ₃	O	4-N-acetyl-8-methylcytosine	
	acyl	CF ₃	O	6-N-acetyl-8-methyladenine	
	acyl	CF ₃	O	4-N-acetyl-5-fluoro-8-methylcytosine	
	acyl	CF ₃	O	6-N-acetyl-2-fluoro-8-methyladenine	
60	acyl	CF ₃	O	6-N-acetyl-2-amino-8-methyladenine	
	acyl	CF ₃	O	2-N-acetylamino-8-methyladenine	
	acyl	CF ₃	O	2-N-acetylamino-8-methylhypoxanthine	
	amino acid	CF ₃	O	6-Methylthymine	
	amino acid	CF ₃	O	6-Methyluracil	
	amino acid	CF ₃	O	8-Methylguanine	
65	amino acid	CF ₃	O	6-Methylcytosine	
	amino acid	CF ₃	O	8-Methyladenine	
	amino acid	CF ₃	O	8-Methylhypoxanthine	
	amino acid	CF ₃	O	5-Fluoro-6-methylcytosine	

TABLE 4-continued

R ²	R ⁶	X	Base
amino acid	CF ₃	O	5-Fluoro-6-methyluracil
amino acid	CF ₃	O	2-Fluoro-8-methyladenine
amino acid	CF ₃	O	2-Fluoro-8-methylhypoxanthine
amino acid	CF ₃	O	2-amino-8-methyladenine
amino acid	CF ₃	O	2-amino-8-methylhypoxanthine
amino acid	CF ₃	O	2-N-acetyl-8-methylguanine
amino acid	CF ₃	O	4-N-acetyl-8-methylcytosine
amino acid	CF ₃	O	6-N-acetyl-8-methyladenine
amino acid	CF ₃	O	4-N-acetyl-5-fluoro-8-methylcytosine
amino acid	CF ₃	O	6-N-acetyl-2-fluoro-8-methyladenine
amino acid	CF ₃	O	6-N-acetyl-2-amino-8-methyladenine
amino acid	CF ₃	O	2-N-acetylamino-8-methyladenine
amino acid	CF ₃	O	2-N-acetylamino-8-methylhypoxanthine
acyl	CH ₃	S	6-Methylthymine
acyl	CH ₃	S	6-Methyluracil
acyl	CH ₃	S	8-Methylguanine
acyl	CH ₃	S	6-Methylcytosine
acyl	CH ₃	S	8-Methyladenine
acyl	CH ₃	S	8-Methylhypoxanthine
acyl	CH ₃	S	5-Fluoro-6-methylcytosine
acyl	CH ₃	S	5-Fluoro-6-methyluracil
acyl	CH ₃	S	2-Fluoro-8-methyladenine
acyl	CH ₃	S	2-Fluoro-8-methylhypoxanthine
acyl	CH ₃	S	2-amino-8-methyladenine
acyl	CH ₃	S	2-amino-8-methylhypoxanthine
acyl	CH ₃	S	2-N-acetyl-8-methylguanine
acyl	CH ₃	S	4-N-acetyl-8-methylcytosine
acyl	CH ₃	S	6-N-acetyl-8-methyladenine
acyl	CH ₃	S	4-N-acetyl-5-fluoro-8-methylcytosine
acyl	CH ₃	S	6-N-acetyl-2-fluoro-8-methyladenine
acyl	CH ₃	S	6-N-acetyl-2-amino-8-methyladenine
acyl	CH ₃	S	2-N-acetylamino-8-methyladenine
acyl	CH ₃	S	2-N-acetylamino-8-methylhypoxanthine
amino acid	CH ₃	S	6-Methylthymine
amino acid	CH ₃	S	6-Methyluracil
amino acid	CH ₃	S	8-Methylguanine
amino acid	CH ₃	S	6-Methylcytosine
amino acid	CH ₃	S	8-Methyladenine
amino acid	CH ₃	S	8-Methylhypoxanthine
amino acid	CH ₃	S	5-Fluoro-6-methylcytosine
amino acid	CH ₃	S	5-Fluoro-6-methyluracil
amino acid	CH ₃	S	2-Fluoro-8-methyladenine
amino acid	CH ₃	S	2-Fluoro-8-methylhypoxanthine
amino acid	CH ₃	S	2-amino-8-methyladenine
amino acid	CH ₃	S	2-amino-8-methylhypoxanthine
amino acid	CH ₃	S	2-N-acetyl-8-methylguanine
amino acid	CH ₃	S	4-N-acetyl-8-methylcytosine
amino acid	CH ₃	S	6-N-acetyl-8-methyladenine
amino acid	CH ₃	S	4-N-acetyl-5-fluoro-8-methylcytosine
amino acid	CH ₃	S	6-N-acetyl-2-fluoro-8-methyladenine
amino acid	CH ₃	S	6-N-acetyl-2-amino-8-methyladenine
amino acid	CH ₃	S	2-N-acetylamino-8-methyladenine
amino acid	CH ₃	S	2-N-acetylamino-8-methylhypoxanthine
acyl	CF ₃	S	6-Methylthymine
acyl	CF ₃	S	6-Methyluracil
acyl	CF ₃	S	8-Methylguanine
acyl	CF ₃	S	6-Methylcytosine
acyl	CF ₃	S	8-Methyladenine
acyl	CF ₃	S	8-Methylhypoxanthine
acyl	CF ₃	S	5-Fluoro-6-methylcytosine
acyl	CF ₃	S	5-Fluoro-6-methyluracil
acyl	CF ₃	S	2-Fluoro-8-methyladenine
acyl	CF ₃	S	2-Fluoro-8-methylhypoxanthine
acyl	CF ₃	S	2-amino-8-methyladenine
acyl	CF ₃	S	2-amino-8-methylhypoxanthine
acyl	CF ₃	S	2-N-acetyl-8-methylguanine
acyl	CF ₃	S	4-N-acetyl-8-methylcytosine
acyl	CF ₃	S	6-N-acetyl-8-methyladenine
acyl	CF ₃	S	4-N-acetyl-5-fluoro-8-methylcytosine
acyl	CF ₃	S	6-N-acetyl-2-fluoro-8-methyladenine
acyl	CF ₃	S	6-N-acetyl-2-amino-8-methyladenine
acyl	CF ₃	S	2-N-acetylamino-8-methyladenine
acyl	CF ₃	S	2-N-acetylamino-8-methylhypoxanthine
amino acid	CF ₃	S	6-Methylthymine
amino acid	CF ₃	S	6-Methyluracil
amino acid	CF ₃	S	8-Methylguanine
amino acid	CF ₃	S	6-Methylcytosine

TABLE 4-continued

	R ²	R ⁶	X	Base
5	amino acid	CF ₃	S	8-Methyladenine
	amino acid	CF ₃	S	8-Methylhypoxanthine
	amino acid	CF ₃	S	5-Fluoro-6-methylcytosine
	amino acid	CF ₃	S	5-Fluoro-8-methyluracil
	amino acid	CF ₃	S	2-Fluoro-8-methyladenine
	amino acid	CF ₃	S	2-Fluoro-8-methylhypoxanthine
10	amino acid	CF ₃	S	2-amino-8-methyladenine
	amino acid	CF ₃	S	2-amino-8-methylhypoxanthine
	amino acid	CF ₃	S	2-N-acetyl-8-methylguanine
	amino acid	CF ₃	S	4-N-acetyl-8-methylcytosine
	amino acid	CF ₃	S	6-N-acetyl-8-methyladenine
	amino acid	CF ₃	S	4-N-acetyl-5-fluoro-8-methylcytosine
15	amino acid	CF ₃	S	6-N-acetyl-2-fluoro-8-methyladenine
	amino acid	CF ₃	S	6-N-acetyl-2-amino-8-methyladenine
	amino acid	CF ₃	S	2-N-acetylamino-8-methyladenine
	amino acid	CF ₃	S	2-N-acetylamino-8-methylhypoxanthine

TABLE 5

	R ²	R ⁶	X	Base
25	acyl	CH ₃	O	6-Methylthymine
	acyl	CH ₃	O	6-Methyluracil
	acyl	CH ₃	O	8-Methylguanine
	acyl	CH ₃	O	6-Methylcytosine
	acyl	CH ₃	O	8-Methyladenine
	acyl	CH ₃	O	8-Methylhypoxanthine
30	acyl	CH ₃	O	5-Fluoro-6-methylcytosine
	acyl	CH ₃	O	5-Fluoro-6-methyluracil
	acyl	CH ₃	O	2-Fluoro-8-methyladenine
	acyl	CH ₃	O	2-Fluoro-8-methylhypoxanthine
	acyl	CH ₃	O	2-amino-8-methyladenine
	acyl	CH ₃	O	2-amino-8-methylhypoxanthine
35	acyl	CH ₃	O	2-N-acetyl-8-methylguanine
	acyl	CH ₃	O	4-N-acetyl-8-methylcytosine
	acyl	CH ₃	O	6-N-acetyl-8-methyladenine
	acyl	CH ₃	O	4-N-acetyl-5-fluoro-8-methylcytosine
	acyl	CH ₃	O	2-N-acetyl-2-fluoro-8-methyladenine
	acyl	CH ₃	O	6-N-acetyl-2-amino-8-methyladenine
40	acyl	CH ₃	O	2-N-acetylamino-8-methyladenine
	acyl	CH ₃	O	2-N-acetylamino-8-methylhypoxanthine
	amino acid	CH ₃	O	6-Methylthymine
	amino acid	CH ₃	O	6-Methyluracil
	amino acid	CH ₃	O	8-Methylguanine
	amino acid	CH ₃	O	6-Methylcytosine
45	amino acid	CH ₃	O	8-Methyladenine
	amino acid	CH ₃	O	8-Methylhypoxanthine
	amino acid	CH ₃	O	5-Fluoro-6-methylcytosine
	amino acid	CH ₃	O	5-Fluoro-6-methyluracil
	amino acid	CH ₃	O	2-Fluoro-8-methyladenine
	amino acid	CH ₃	O	2-Fluoro-8-methylhypoxanthine
50	amino acid	CH ₃	O	2-amino-8-methyladenine
	amino acid	CH ₃	O	2-amino-8-methylhypoxanthine
	amino acid	CH ₃	O	2-N-acetyl-8-methylguanine
	amino acid	CH ₃	O	4-N-acetyl-8-methylcytosine
	amino acid	CH ₃	O	6-N-acetyl-8-methyladenine
	amino acid	CH ₃	O	4-N-acetyl-5-fluoro-8-methylcytosine
55	amino acid	CH ₃	O	6-N-acetyl-2-fluoro-8-methyladenine
	amino acid	CH ₃	O	6-N-acetyl-2-amino-8-methyladenine
	amino acid	CH ₃	O	2-N-acetylamino-8-methyladenine
	amino acid	CH ₃	O	2-N-acetylamino-8-methylhypoxanthine
	acyl	CF ₃	O	6-Methylthymine
	acyl	CF ₃	O	6-Methyluracil
60	acyl	CF ₃	O	8-Methylguanine
	acyl	CF ₃	O	6-Methylcytosine
	acyl	CF ₃	O	8-Methyladenine
	acyl	CF ₃	O	8-Methylhypoxanthine
	acyl	CF ₃	O	5-Fluoro-6-methylcytosine
	acyl	CF ₃	O	5-Fluoro-6-methyluracil
65	acyl	CF ₃	O	2-Fluoro-8-methyladenine
	acyl	CF ₃	O	2-Fluoro-8-methylhypoxanthine
	acyl	CF ₃	O	2-amino-8-methyladenine
	acyl	CF ₃	O	2-amino-8-methylhypoxanthine

TABLE 5-continued

R ²	R ⁶	X	Base
acyl	CF ₃	O	2-N-acetyl-8-methylguanine
acyl	CF ₃	O	4-N-acetyl-8-methylcytosine
acyl	CF ₃	O	6-N-acetyl-8-methyladenine
acyl	CF ₃	O	4-N-acetyl-5-fluoro-8-methylcytosine
acyl	CF ₃	O	6-N-acetyl-2-fluoro-8-methyladenine
acyl	CF ₃	O	6-N-acetyl-2-amino-8-methyladenine
acyl	CF ₃	O	2-N-acetyl-8-methyladenine
acyl	CF ₃	O	2-N-acetyl-8-methylthymine
amino acid	CF ₃	O	6-Methylthymine
amino acid	CF ₃	O	6-Methyluracil
amino acid	CF ₃	O	8-Methylguanine
amino acid	CF ₃	O	6-Methylcytosine
amino acid	CF ₃	O	8-Methyladenine
amino acid	CF ₃	O	8-Methylhypoxanthine
amino acid	CF ₃	O	5-Fluoro-6-methylcytosine
amino acid	CF ₃	O	5-Fluoro-6-methyluracil
amino acid	CF ₃	O	2-Fluoro-8-methyladenine
amino acid	CF ₃	O	2-Fluoro-8-methylhypoxanthine
amino acid	CF ₃	O	2-amino-8-methyladenine
amino acid	CF ₃	O	2-amino-8-methylhypoxanthine
amino acid	CF ₃	O	2-N-acetyl-8-methylguanine
amino acid	CF ₃	O	4-N-acetyl-8-methylcytosine
amino acid	CF ₃	O	6-N-acetyl-8-methyladenine
amino acid	CF ₃	O	4-N-acetyl-5-fluoro-8-methylcytosine
amino acid	CF ₃	O	6-N-acetyl-2-fluoro-8-methyladenine
amino acid	CF ₃	O	6-N-acetyl-2-amino-8-methyladenine
amino acid	CF ₃	O	2-N-acetyl-8-methyladenine
amino acid	CF ₃	O	2-N-acetyl-8-methylthymine
acyl	2-Bromo-vinyl	S	6-Methylthymine
acyl	2-Bromo-vinyl	S	6-Methyluracil
acyl	2-Bromo-vinyl	S	8-Methylguanine
acyl	2-Bromo-vinyl	S	6-Methylcytosine
acyl	2-Bromo-vinyl	S	8-Methyladenine
acyl	2-Bromo-vinyl	S	8-Methylhypoxanthine
acyl	2-Bromo-vinyl	S	5-Fluoro-6-methylcytosine
acyl	2-Bromo-vinyl	S	5-Fluoro-6-methyluracil
acyl	2-Bromo-vinyl	S	2-Fluoro-8-methyladenine
acyl	2-Bromo-vinyl	S	2-Fluoro-8-methylhypoxanthine
acyl	2-Bromo-vinyl	S	2-amino-8-methyladenine
acyl	2-Bromo-vinyl	S	2-amino-8-methylhypoxanthine
acyl	2-Bromo-vinyl	S	2-N-acetyl-8-methylguanine
acyl	2-Bromo-vinyl	S	4-N-acetyl-8-methylcytosine
acyl	2-Bromo-vinyl	S	6-N-acetyl-8-methyladenine
acyl	2-Bromo-vinyl	S	4-N-acetyl-5-fluoro-8-methylcytosine
acyl	2-Bromo-vinyl	S	6-N-acetyl-2-fluoro-8-methyladenine
acyl	2-Bromo-vinyl	S	6-N-acetyl-2-amino-8-methyladenine
acyl	2-Bromo-vinyl	S	2-N-acetyl-8-methyladenine
acyl	2-Bromo-vinyl	S	2-N-acetyl-8-methylthymine
amino acid	2-Bromo-vinyl	S	6-Methylthymine
amino acid	2-Bromo-vinyl	S	6-Methyluracil
amino acid	2-Bromo-vinyl	S	8-Methylguanine
amino acid	2-Bromo-vinyl	S	6-Methylcytosine
amino acid	2-Bromo-vinyl	S	8-Methyladenine
amino acid	2-Bromo-vinyl	S	8-Methylhypoxanthine
amino acid	2-Bromo-vinyl	S	5-Fluoro-6-methylcytosine
amino acid	2-Bromo-vinyl	S	5-Fluoro-6-methyluracil
amino acid	2-Bromo-vinyl	S	2-Fluoro-8-methyladenine
amino acid	2-Bromo-vinyl	S	2-Fluoro-8-methylhypoxanthine
amino acid	2-Bromo-vinyl	S	2-amino-8-methyladenine
amino acid	2-Bromo-vinyl	S	2-amino-8-methylhypoxanthine
amino acid	2-Bromo-vinyl	S	2-N-acetyl-8-methylguanine
amino acid	2-Bromo-vinyl	S	4-N-acetyl-8-methylcytosine
amino acid	2-Bromo-vinyl	S	6-N-acetyl-8-methyladenine
amino acid	2-Bromo-vinyl	S	4-N-acetyl-5-fluoro-8-methylcytosine
amino acid	2-Bromo-vinyl	S	6-N-acetyl-2-fluoro-8-methyladenine
amino acid	2-Bromo-vinyl	S	6-N-acetyl-2-amino-8-methyladenine
amino acid	2-Bromo-vinyl	S	2-N-acetyl-8-methyladenine
amino acid	2-Bromo-vinyl	S	2-N-acetyl-8-methylthymine
acyl	CH ₃	S	6-Methylthymine
acyl	CH ₃	S	6-Methyluracil
acyl	CH ₃	S	8-Methylguanine
acyl	CH ₃	S	6-Methylcytosine
acyl	CH ₃	S	8-Methyladenine

TABLE 5-continued

R ²	R ⁶	X	Base
acyl	CH ₃	S	8-Methylhypoxanthine
acyl	CH ₃	S	5-Fluoro-6-methylcytosine
acyl	CH ₃	S	5-Fluoro-6-methyluracil
acyl	CH ₃	S	2-Fluoro-8-methyladenine
acyl	CH ₃	S	2-Fluoro-8-methylhypoxanthine
acyl	CH ₃	S	2-amino-8-methyladenine
acyl	CH ₃	S	2-amino-8-methylhypoxanthine
acyl	CH ₃	S	2-N-acetyl-8-methylguanine
acyl	CH ₃	S	4-N-acetyl-8-methylcytosine
acyl	CH ₃	S	6-N-acetyl-8-methyladenine
acyl	CH ₃	S	4-N-acetyl-5-fluoro-8-methylcytosine
acyl	CH ₃	S	6-N-acetyl-2-fluoro-8-methyladenine
acyl	CH ₃	S	6-N-acetyl-2-amino-8-methyladenine
acyl	CH ₃	S	2-N-acetyl-8-methyladenine
acyl	CH ₃	S	2-N-acetyl-8-methylthymine
amino acid	CH ₃	S	6-Methylthymine
amino acid	CH ₃	S	6-Methyluracil
amino acid	CH ₃	S	8-Methylguanine
amino acid	CH ₃	S	6-Methylcytosine
amino acid	CH ₃	S	8-Methyladenine
amino acid	CH ₃	S	8-Methylhypoxanthine
amino acid	CH ₃	S	5-Fluoro-6-methylcytosine
amino acid	CH ₃	S	5-Fluoro-6-methyluracil
amino acid	CH ₃	S	2-Fluoro-8-methyladenine
amino acid	CH ₃	S	2-Fluoro-8-methylhypoxanthine
amino acid	CH ₃	S	2-amino-8-methyladenine
amino acid	CH ₃	S	2-amino-8-methylhypoxanthine
amino acid	CH ₃	S	2-N-acetyl-8-methylguanine
amino acid	CH ₃	S	4-N-acetyl-8-methylcytosine
amino acid	CH ₃	S	6-N-acetyl-8-methyladenine
amino acid	CH ₃	S	4-N-acetyl-5-fluoro-8-methylcytosine
amino acid	CH ₃	S	6-N-acetyl-2-fluoro-8-methyladenine
amino acid	CH ₃	S	6-N-acetyl-2-amino-8-methyladenine
amino acid	CH ₃	S	2-N-acetyl-8-methyladenine
amino acid	CH ₃	S	2-N-acetyl-8-methylthymine
acyl	CF ₃	S	6-Methylthymine
acyl	CF ₃	S	6-Methyluracil
acyl	CF ₃	S	8-Methylguanine
acyl	CF ₃	S	6-Methylcytosine
acyl	CF ₃	S	8-Methyladenine
acyl	CF ₃	S	8-Methylhypoxanthine
acyl	CF ₃	S	5-Fluoro-6-methylcytosine
acyl	CF ₃	S	5-Fluoro-6-methyluracil
acyl	CF ₃	S	2-Fluoro-8-methyladenine
acyl	CF ₃	S	2-Fluoro-8-methylhypoxanthine
acyl	CF ₃	S	2-amino-8-methyladenine
acyl	CF ₃	S	2-amino-8-methylhypoxanthine
acyl	CF ₃	S	2-N-acetyl-8-methylguanine
acyl	CF ₃	S	4-N-acetyl-8-methylcytosine
acyl	CF ₃	S	6-N-acetyl-8-methyladenine
acyl	CF ₃	S	4-N-acetyl-5-fluoro-8-methylcytosine
acyl	CF ₃	S	6-N-acetyl-2-fluoro-8-methyladenine
acyl	CF ₃	S	6-N-acetyl-2-amino-8-methyladenine
acyl	CF ₃	S	2-N-acetyl-8-methyladenine
acyl	CF ₃	S	2-N-acetyl-8-methylthymine
amino acid	CF ₃	S	6-Methylthymine
amino acid	CF ₃	S	6-Methyluracil
amino acid	CF ₃	S	8-Methylguanine
amino acid	CF ₃	S	6-Methylcytosine
amino acid	CF ₃	S	8-Methyladenine
amino acid	CF ₃	S	8-Methylhypoxanthine
amino acid	CF ₃	S	5-Fluoro-6-methylcytosine
amino acid	CF ₃	S	5-Fluoro-6-methyluracil
amino acid	CF ₃	S	2-Fluoro-8-methyladenine
amino acid	CF ₃	S	2-Fluoro-8-methylhypoxanthine
amino acid	CF ₃	S	2-amino-8-methyladenine
amino acid	CF ₃	S	2-amino-8-methylhypoxanthine
amino acid	CF ₃	S	2-N-acetyl-8-methylguanine
amino acid	CF ₃	S	4-N-acetyl-8-methylcytosine
amino acid	CF ₃	S	6-N-acetyl-8-methyladenine
amino acid	CF ₃	S	4-N-acetyl-5-fluoro-8-methylcytosine
amino acid	CF ₃	S	6-N-acetyl-2-fluoro-8-methyladenine
amino acid	CF ₃	S	6-N-acetyl-2-amino-8-methyladenine
amino acid	CF ₃	S	2-N-acetyl-8-methyladenine
amino acid	CF ₃	S	2-N-acetyl-8-methylthymine

TABLE 5-continued

R ²	R ⁶	X	Base
amino acid	-CF ₃	S	2-N-acetyl-amino-8-methylhypoxanthine

5

TABLE 6

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-acyl	F	O	6-Methylthymine	F	H
CH ₃	O-acyl	F	O	6-Methyluracil	F	H
CH ₃	O-acyl	F	O	8-Methylguanine	F	H
CH ₃	O-acyl	F	O	6-Methylcytosine	F	H
CH ₃	O-acyl	F	O	8-Methyladenine	F	H
CH ₃	O-acyl	F	O	8-Methylhypoxanthine	F	H
CH ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	F	H
CH ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	F	H
CH ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	F	H
CH ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	F	H
CH ₃	O-acyl	F	O	2-Amino-8-methyladenine	F	H
CH ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	F	H
CH ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	F	H
CH ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	F	H
CH ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	F	H
CH ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	H
CH ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	F	H
CH ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	F	H
CH ₃	O-acyl	F	O	2-N-acetyl-amino-8-methyladenine	F	H
CH ₃	O-acyl	F	O	2-N-acetyl-amino-8-methylhypoxanthine	F	H
CH ₃	O-acyl	F	O	6-Methylthymine	F	O-amino acid
CH ₃	O-acyl	F	O	6-Methyluracil	F	O-amino acid
CH ₃	O-acyl	F	O	8-Methylguanine	F	O-amino acid
CH ₃	O-acyl	F	O	6-Methylcytosine	F	O-amino acid
CH ₃	O-acyl	F	O	8-Methyladenine	F	O-amino acid
CH ₃	O-acyl	F	O	8-Methylhypoxanthine	F	O-amino acid
CH ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	F	O-amino acid
CH ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	F	O-amino acid
CH ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	F	O-amino acid
CH ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CH ₃	O-acyl	F	O	2-Amino-8-methyladenine	F	O-amino acid
CH ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	F	O-amino acid
CH ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	F	O-amino acid
CH ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	F	O-amino acid
CH ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	F	O-amino acid
CH ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CH ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CH ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CH ₃	O-acyl	F	O	2-N-acetyl-amino-8-methyladenine	F	O-amino acid
CH ₃	O-acyl	F	O	2-N-acetyl-amino-8-methylhypoxanthine	F	O-amino acid
CH ₃	O-acyl	F	O	6-Methylthymine	F	O-acyl
CH ₃	O-acyl	F	O	6-Methyluracil	F	O-acyl
CH ₃	O-acyl	F	O	8-Methylguanine	F	O-acyl
CH ₃	O-acyl	F	O	6-Methylcytosine	F	O-acyl
CH ₃	O-acyl	F	O	8-Methyladenine	F	O-acyl
CH ₃	O-acyl	F	O	8-Methylhypoxanthine	F	O-acyl
CH ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	F	O-acyl
CH ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	F	O-acyl
CH ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	F	O-acyl
CH ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CH ₃	O-acyl	F	O	2-Amino-8-methyladenine	F	O-acyl
CH ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	F	O-acyl
CH ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	F	O-acyl
CH ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	F	O-acyl
CH ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	F	O-acyl
CH ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CH ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CH ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CH ₃	O-acyl	F	O	2-N-acetyl-amino-8-methyladenine	F	O-acyl
CH ₃	O-acyl	F	O	2-N-acetyl-amino-8-methylhypoxanthine	F	O-acyl
CH ₃	O-acyl	F	O	6-Methylthymine	F	OH
CH ₃	O-acyl	F	O	6-Methyluracil	F	OH
CH ₃	O-acyl	F	O	8-Methylguanine	F	OH
CH ₃	O-acyl	F	O	6-Methylcytosine	F	OH

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-acyl	F	O	8-Methyladenine	F	OH
CH ₃	O-acyl	F	O	8-Methylhypoxanthine	F	OH
CH ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	F	OH
CH ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	F	OH
CH ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	F	OH
CH ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	F	OH
CH ₃	O-acyl	F	O	2-Amino-8-methyladenine	F	OH
CH ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	F	OH
CH ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	F	OH
CH ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	F	OH
CH ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	F	OH
CH ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	OH
CH ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	F	OH
CH ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	F	OH
CH ₃	O-acyl	F	O	2-N-acetylamino-8-methyladenine	F	OH
CH ₃	O-acyl	F	O	2-N-acetylamino-8-methylhypoxanthine	F	OH
CH ₃	O-acyl	F	O	6-Methylthymine	Br	H
CH ₃	O-acyl	F	O	6-Methyluracil	Br	H
CH ₃	O-acyl	F	O	8-Methylguanine	Br	H
CH ₃	O-acyl	F	O	6-Methylcytosine	Br	H
CH ₃	O-acyl	F	O	8-Methyladenine	Br	H
CH ₃	O-acyl	F	O	8-Methylhypoxanthine	Br	H
CH ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	Br	H
CH ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	Br	H
CH ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	Br	H
CH ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	Br	H
CH ₃	O-acyl	F	O	2-Amino-8-methyladenine	Br	H
CH ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	Br	H
CH ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	Br	H
CH ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	Br	H
CH ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	Br	H
CH ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	H
CH ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	H
CH ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	Br	H
CH ₃	O-acyl	F	O	2-N-acetylamino-8-methyladenine	Br	H
CH ₃	O-acyl	F	O	2-N-acetylamino-8-methylhypoxanthine	Br	H
CH ₃	O-acyl	F	O	6-Methylthymine	Br	O-amino acid
CH ₃	O-acyl	F	O	6-Methyluracil	Br	O-amino acid
CH ₃	O-acyl	F	O	8-Methylguanine	Br	O-amino acid
CH ₃	O-acyl	F	O	6-Methylcytosine	Br	O-amino acid
CH ₃	O-acyl	F	O	8-Methyladenine	Br	O-amino acid
CH ₃	O-acyl	F	O	8-Methylhypoxanthine	Br	O-amino acid
CH ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	Br	O-amino acid
CH ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CH ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	Br	O-amino acid
CH ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CH ₃	O-acyl	F	O	2-Amino-8-methyladenine	Br	O-amino acid
CH ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CH ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	Br	O-amino acid
CH ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CH ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	Br	O-amino acid
CH ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CH ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CH ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CH ₃	O-acyl	F	O	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CH ₃	O-acyl	F	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-amino acid
CH ₃	O-acyl	F	O	6-Methylthymine	Br	O-acyl
CH ₃	O-acyl	F	O	6-Methyluracil	Br	O-acyl
CH ₃	O-acyl	F	O	8-Methylguanine	Br	O-acyl
CH ₃	O-acyl	F	O	6-Methylcytosine	Br	O-acyl
CH ₃	O-acyl	F	O	8-Methyladenine	Br	O-acyl
CH ₃	O-acyl	F	O	8-Methylhypoxanthine	Br	O-acyl
CH ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	Br	O-acyl
CH ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	Br	O-acyl
CH ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	Br	O-acyl
CH ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CH ₃	O-acyl	F	O	2-Amino-8-methyladenine	Br	O-acyl
CH ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	Br	O-acyl
CH ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	Br	O-acyl
CH ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	Br	O-acyl
CH ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	Br	O-acyl
CH ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CH ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CH ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-acyl	F	O	2-N-acetylamino-8-methyladenine	Br	O-acyl
CH ₃	O-acyl	F	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-acyl
CH ₃	O-acyl	F	O	6-Methylthymine	Br	OH
CH ₃	O-acyl	F	O	6-Methyluracil	Br	OH
CH ₃	O-acyl	F	O	8-Methylguanine	Br	OH
CH ₃	O-acyl	F	O	6-Methylcytosine	Br	OH
CH ₃	O-acyl	F	O	8-Methyladenine	Br	OH
CH ₃	O-acyl	F	O	8-Methylhypoxanthine	Br	OH
CH ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	Br	OH
CH ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	Br	OH
CH ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	Br	OH
CH ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	Br	OH
CH ₃	O-acyl	F	O	2-Amino-8-methyladenine	Br	OH
CH ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	Br	OH
CH ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	Br	OH
CH ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	Br	OH
CH ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	Br	OH
CH ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	OH
CH ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	OH
CH ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	Br	OH
CH ₃	O-acyl	F	O	2-N-acetylamino-8-methyladenine	Br	OH
CH ₃	O-acyl	F	O	2-N-acetylamino-8-methylhypoxanthine	Br	OH
CH ₃	O-acyl	F	O	6-Methylthymine	Cl	O-acyl
CH ₃	O-acyl	F	O	6-Methyluracil	Cl	O-acyl
CH ₃	O-acyl	F	O	8-Methylguanine	Cl	O-acyl
CH ₃	O-acyl	F	O	6-Methylcytosine	Cl	O-acyl
CH ₃	O-acyl	F	O	8-Methyladenine	Cl	O-acyl
CH ₃	O-acyl	F	O	8-Methylhypoxanthine	Cl	O-acyl
CH ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	Cl	O-acyl
CH ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CH ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	Cl	O-acyl
CH ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CH ₃	O-acyl	F	O	2-Amino-8-methyladenine	Cl	O-acyl
CH ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CH ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	Cl	O-acyl
CH ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CH ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	Cl	O-acyl
CH ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CH ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CH ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CH ₃	O-acyl	F	O	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CH ₃	O-acyl	F	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-acyl
CH ₃	O-acyl	F	O	6-Methylthymine	Cl	OH
CH ₃	O-acyl	F	O	6-Methyluracil	Cl	OH
CH ₃	O-acyl	F	O	8-Methylguanine	Cl	OH
CH ₃	O-acyl	F	O	6-Methylcytosine	Cl	OH
CH ₃	O-acyl	F	O	8-Methyladenine	Cl	OH
CH ₃	O-acyl	F	O	8-Methylhypoxanthine	Cl	OH
CH ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	Cl	OH
CH ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	Cl	OH
CH ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	Cl	OH
CH ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	Cl	OH
CH ₃	O-acyl	F	O	2-Amino-8-methyladenine	Cl	OH
CH ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	Cl	OH
CH ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	Cl	OH
CH ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	Cl	OH
CH ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	Cl	OH
CH ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	OH
CH ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	OH
CH ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	Cl	OH
CH ₃	O-acyl	F	O	2-N-acetylamino-8-methyladenine	Cl	OH
CH ₃	O-acyl	F	O	2-N-acetylamino-8-methylhypoxanthine	Cl	OH
CH ₃	O-acyl	F	O	6-Methylthymine	Cl	H
CH ₃	O-acyl	F	O	6-Methyluracil	Cl	H
CH ₃	O-acyl	F	O	8-Methylguanine	Cl	H
CH ₃	O-acyl	F	O	6-Methylcytosine	Cl	H
CH ₃	O-acyl	F	O	8-Methyladenine	Cl	H
CH ₃	O-acyl	F	O	8-Methylhypoxanthine	Cl	H
CH ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	Cl	H
CH ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	Cl	H
CH ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	Cl	H
CH ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	Cl	H
CH ₃	O-acyl	F	O	2-Amino-8-methyladenine	Cl	H

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	Cl	H
CH ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	Cl	H
CH ₃	O-acyl	F	O	6-Methylthymine	Cl	O-amino acid
CH ₃	O-acyl	F	O	6-Methyluracil	Cl	O-amino acid
CH ₃	O-acyl	F	O	8-Methylguanine	Cl	O-amino acid
CH ₃	O-acyl	F	O	6-Methylcytosine	Cl	O-amino acid
CH ₃	O-acyl	F	O	8-Methyladenine	Cl	O-amino acid
CH ₃	O-acyl	F	O	8-Methylhypoxanthine	Cl	O-amino acid
CH ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CH ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CH ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	O-acyl	F	O	2-Amino-8-methyladenine	Cl	O-amino acid
CH ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CH ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CH ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CH ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CH ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CH ₃	O-acyl	F	O	2-N-acetyl-8-methyladenine	Cl	O-amino acid
CH ₃	O-acyl	F	O	2-N-acetyl-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	O-acyl	F	O	6-Methylthymine	H	H
CH ₃	O-acyl	F	O	6-Methyluracil	H	H
CH ₃	O-acyl	F	O	8-Methylguanine	H	H
CH ₃	O-acyl	F	O	6-Methylcytosine	H	H
CH ₃	O-acyl	F	O	8-Methyladenine	H	H
CH ₃	O-acyl	F	O	8-Methylhypoxanthine	H	H
CH ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	H	H
CH ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	H	H
CH ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	H	H
CH ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	H	H
CH ₃	O-acyl	F	O	2-Amino-8-methyladenine	H	H
CH ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	H	H
CH ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	H	H
CH ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	H	H
CH ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	H	H
CH ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	H
CH ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	H	H
CH ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	H	H
CH ₃	O-acyl	F	O	2-N-acetyl-8-methyladenine	H	H
CH ₃	O-acyl	F	O	2-N-acetyl-8-methylhypoxanthine	H	H
CH ₃	O-acyl	F	O	6-Methylthymine	H	O-amino acid
CH ₃	O-acyl	F	O	6-Methyluracil	H	O-amino acid
CH ₃	O-acyl	F	O	8-Methylguanine	H	O-amino acid
CH ₃	O-acyl	F	O	6-Methylcytosine	H	O-amino acid
CH ₃	O-acyl	F	O	8-Methyladenine	H	O-amino acid
CH ₃	O-acyl	F	O	8-Methylhypoxanthine	H	O-amino acid
CH ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	H	O-amino acid
CH ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	H	O-amino acid
CH ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	H	O-amino acid
CH ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	H	O-amino acid
CH ₃	O-acyl	F	O	2-Amino-8-methyladenine	H	O-amino acid
CH ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	H	O-amino acid
CH ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	H	O-amino acid
CH ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	H	O-amino acid
CH ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	H	O-amino acid
CH ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-amino acid
CH ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-amino acid
CH ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	H	O-amino acid
CH ₃	O-acyl	F	O	2-N-acetyl-8-methyladenine	H	O-amino acid
CH ₃	O-acyl	F	O	2-N-acetyl-8-methylhypoxanthine	H	O-amino acid
CH ₃	O-acyl	F	O	6-Methylthymine	H	O-acyl
CH ₃	O-acyl	F	O	6-Methyluracil	H	O-acyl
CH ₃	O-acyl	F	O	8-Methylguanine	H	O-acyl
CH ₃	O-acyl	F	O	6-Methylcytosine	H	O-acyl
CH ₃	O-acyl	F	O	8-Methyladenine	H	O-acyl
CH ₃	O-acyl	F	O	8-Methylhypoxanthine	H	O-acyl
CH ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	H	O-acyl
CH ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	H	O-acyl
CH ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	H	O-acyl
CH ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	H	O-acyl
CH ₃	O-acyl	F	O	2-Amino-8-methyladenine	H	O-acyl
CH ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	H	O-acyl

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	H	O-acyl
CH ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	H	O-acyl
CH ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	H	O-acyl
CH ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-acyl
CH ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-acyl
CH ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	H	O-acyl
CH ₃	O-acyl	F	O	2-N-acetylamino-8-methyladenine	H	O-acyl
CH ₃	O-acyl	F	O	2-N-acetylamino-8-methylhypoxanthine	H	O-acyl
CH ₃	O-acyl	F	O	6-Methylthymine	H	OH
CH ₃	O-acyl	F	O	6-Methyluracil	H	OH
CH ₃	O-acyl	F	O	8-Methylguanine	H	OH
CH ₃	O-acyl	F	O	6-Methylcytosine	H	OH
CH ₃	O-acyl	F	O	8-Methyladenine	H	OH
CH ₃	O-acyl	F	O	8-Methylhypoxanthine	H	OH
CH ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	H	OH
CH ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	H	OH
CH ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	H	OH
CH ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	H	OH
CH ₃	O-acyl	F	O	2-Amino-8-methyladenine	H	OH
CH ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	H	OH
CH ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	H	OH
CH ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	H	OH
CH ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	H	OH
CH ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	OH
CH ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	H	OH
CH ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	H	OH
CH ₃	O-acyl	F	O	2-N-acetylamino-8-methyladenine	H	OH
CH ₃	O-acyl	F	O	2-N-acetylamino-8-methylhypoxanthine	H	OH
CH ₃	O-acyl	F	O	6-Methylthymine	OH	H
CH ₃	O-acyl	F	O	6-Methyluracil	OH	H
CH ₃	O-acyl	F	O	8-Methylguanine	OH	H
CH ₃	O-acyl	F	O	6-Methylcytosine	OH	H
CH ₃	O-acyl	F	O	8-Methyladenine	OH	H
CH ₃	O-acyl	F	O	8-Methylhypoxanthine	OH	H
CH ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	OH	H
CH ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	OH	H
CH ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	OH	H
CH ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	OH	H
CH ₃	O-acyl	F	O	2-Amino-8-methyladenine	OH	H
CH ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	OH	H
CH ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	OH	H
CH ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	OH	H
CH ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	OH	H
CH ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	OH	H
CH ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	OH	H
CH ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	OH	H
CH ₃	O-acyl	F	O	2-N-acetylamino-8-methyladenine	OH	H
CH ₃	O-acyl	F	O	2-N-acetylamino-8-methylhypoxanthine	OH	H
CH ₃	O-acyl	Br	O	6-Methylthymine	F	H
CH ₃	O-acyl	Br	O	6-Methyluracil	F	H
CH ₃	O-acyl	Br	O	8-Methylguanine	F	H
CH ₃	O-acyl	Br	O	6-Methylcytosine	F	H
CH ₃	O-acyl	Br	O	8-Methyladenine	F	H
CH ₃	O-acyl	Br	O	8-Methylhypoxanthine	F	H
CH ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	F	H
CH ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	F	H
CH ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	F	H
CH ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	F	H
CH ₃	O-acyl	Br	O	2-Amino-8-methyladenine	F	H
CH ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	F	H
CH ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	F	H
CH ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	F	H
CH ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	F	H
CH ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	H
CH ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	F	H
CH ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	F	H
CH ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	F	H
CH ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	F	H
CH ₃	O-acyl	Br	O	6-Methylthymine	F	O-amino acid
CH ₃	O-acyl	Br	O	6-Methyluracil	F	O-amino acid
CH ₃	O-acyl	Br	O	8-Methylguanine	F	O-amino acid
CH ₃	O-acyl	Br	O	6-Methylcytosine	F	O-amino acid
CH ₃	O-acyl	Br	O	8-Methyladenine	F	O-amino acid

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-acyl	Br	O	8-Methylhypoxanthine	F	O-amino acid
CH ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	F	O-amino acid
CH ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	F	O-amino acid
CH ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	F	O-amino acid
CH ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CH ₃	O-acyl	Br	O	2-Amino-8-methyladenine	F	O-amino acid
CH ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	F	O-amino acid
CH ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	F	O-amino acid
CH ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	F	O-amino acid
CH ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	F	O-amino acid
CH ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CH ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CH ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CH ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	F	O-amino acid
CH ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	F	O-amino acid
CH ₃	O-acyl	Br	O	6-Methylthymine	F	O-acyl
CH ₃	O-acyl	Br	O	6-Methyluracil	F	O-acyl
CH ₃	O-acyl	Br	O	8-Methylguanine	F	O-acyl
CH ₃	O-acyl	Br	O	6-Methylcytosine	F	O-acyl
CH ₃	O-acyl	Br	O	8-Methyladenine	F	O-acyl
CH ₃	O-acyl	Br	O	8-Methylhypoxanthine	F	O-acyl
CH ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	F	O-acyl
CH ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	F	O-acyl
CH ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	F	O-acyl
CH ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CH ₃	O-acyl	Br	O	2-Amino-8-methyladenine	F	O-acyl
CH ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	F	O-acyl
CH ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	F	O-acyl
CH ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	F	O-acyl
CH ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	F	O-acyl
CH ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CH ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CH ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CH ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	F	O-acyl
CH ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	F	O-acyl
CH ₃	O-acyl	Br	O	6-Methylthymine	F	OH
CH ₃	O-acyl	Br	O	6-Methyluracil	F	OH
CH ₃	O-acyl	Br	O	8-Methylguanine	F	OH
CH ₃	O-acyl	Br	O	6-Methylcytosine	F	OH
CH ₃	O-acyl	Br	O	8-Methyladenine	F	OH
CH ₃	O-acyl	Br	O	8-Methylhypoxanthine	F	OH
CH ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	F	OH
CH ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	F	OH
CH ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	F	OH
CH ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	F	OH
CH ₃	O-acyl	Br	O	2-Amino-8-methyladenine	F	OH
CH ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	F	OH
CH ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	F	OH
CH ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	F	OH
CH ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	F	OH
CH ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	OH
CH ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	F	OH
CH ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	F	OH
CH ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	F	OH
CH ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	F	OH
CH ₃	O-acyl	Br	O	6-Methylthymine	Br	H
CH ₃	O-acyl	Br	O	6-Methyluracil	Br	H
CH ₃	O-acyl	Br	O	8-Methylguanine	Br	H
CH ₃	O-acyl	Br	O	6-Methylcytosine	Br	H
CH ₃	O-acyl	Br	O	8-Methyladenine	Br	H
CH ₃	O-acyl	Br	O	8-Methylhypoxanthine	Br	H
CH ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	Br	H
CH ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	Br	H
CH ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	Br	H
CH ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	Br	H
CH ₃	O-acyl	Br	O	2-Amino-8-methyladenine	Br	H
CH ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	Br	H
CH ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	Br	H
CH ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	Br	H
CH ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	Br	H
CH ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	H
CH ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	H
CH ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	Br	H
CH ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	Br	H

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	Br	H
CH ₃	O-acyl	Br	O	6-Methylthymine	Br	O-amino acid
CH ₃	O-acyl	Br	O	6-Methyluracil	Br	O-amino acid
CH ₃	O-acyl	Br	O	8-Methylguanine	Br	O-amino acid
CH ₃	O-acyl	Br	O	6-Methylcytosine	Br	O-amino acid
CH ₃	O-acyl	Br	O	8-Methyladenine	Br	O-amino acid
CH ₃	O-acyl	Br	O	8-Methylhypoxanthine	Br	O-amino acid
CH ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	Br	O-amino acid
CH ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CH ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	Br	O-amino acid
CH ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CH ₃	O-acyl	Br	O	2-Amino-8-methyladenine	Br	O-amino acid
CH ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CH ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	Br	O-amino acid
CH ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CH ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	Br	O-amino acid
CH ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CH ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CH ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CH ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CH ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-amino acid
CH ₃	O-acyl	Br	O	6-Methylthymine	Br	O-acyl
CH ₃	O-acyl	Br	O	6-Methyluracil	Br	O-acyl
CH ₃	O-acyl	Br	O	8-Methylguanine	Br	O-acyl
CH ₃	O-acyl	Br	O	6-Methylcytosine	Br	O-acyl
CH ₃	O-acyl	Br	O	8-Methyladenine	Br	O-acyl
CH ₃	O-acyl	Br	O	8-Methylhypoxanthine	Br	O-acyl
CH ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	Br	O-acyl
CH ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	Br	O-acyl
CH ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	Br	O-acyl
CH ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CH ₃	O-acyl	Br	O	2-Amino-8-methyladenine	Br	O-acyl
CH ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	Br	O-acyl
CH ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	Br	O-acyl
CH ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	Br	O-acyl
CH ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	Br	O-acyl
CH ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CH ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CH ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CH ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	Br	O-acyl
CH ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-acyl
CH ₃	O-acyl	Br	O	6-Methylthymine	Br	OH
CH ₃	O-acyl	Br	O	6-Methyluracil	Br	OH
CH ₃	O-acyl	Br	O	8-Methylguanine	Br	OH
CH ₃	O-acyl	Br	O	6-Methylcytosine	Br	OH
CH ₃	O-acyl	Br	O	8-Methyladenine	Br	OH
CH ₃	O-acyl	Br	O	8-Methylhypoxanthine	Br	OH
CH ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	Br	OH
CH ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	Br	OH
CH ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	Br	OH
CH ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	Br	OH
CH ₃	O-acyl	Br	O	2-Amino-8-methyladenine	Br	OH
CH ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	Br	OH
CH ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	Br	OH
CH ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	Br	OH
CH ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	Br	OH
CH ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	OH
CH ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	OH
CH ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	Br	OH
CH ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	Br	OH
CH ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	Br	OH
CH ₃	O-acyl	Br	O	6-Methylthymine	Cl	H
CH ₃	O-acyl	Br	O	6-Methyluracil	Cl	H
CH ₃	O-acyl	Br	O	8-Methylguanine	Cl	H
CH ₃	O-acyl	Br	O	6-Methylcytosine	Cl	H
CH ₃	O-acyl	Br	O	8-Methyladenine	Cl	H
CH ₃	O-acyl	Br	O	8-Methylhypoxanthine	Cl	H
CH ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	Cl	H
CH ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	Cl	H
CH ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	Cl	H
CH ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	Cl	H
CH ₃	O-acyl	Br	O	2-Amino-8-methyladenine	Cl	H
CH ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	Cl	H

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	Cl	H
CH ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	Cl	H
CH ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	Cl	H
CH ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	H
CH ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	H
CH ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	Cl	H
CH ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	Cl	H
CH ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	Cl	H
CH ₃	O-acyl	Br	O	6-Methylthymine	Cl	O-amino acid
CH ₃	O-acyl	Br	O	6-Methyluracil	Cl	O-amino acid
CH ₃	O-acyl	Br	O	8-Methylguanine	Cl	O-amino acid
CH ₃	O-acyl	Br	O	6-Methylcytosine	Cl	O-amino acid
CH ₃	O-acyl	Br	O	8-Methyladenine	Cl	O-amino acid
CH ₃	O-acyl	Br	O	8-Methylhypoxanthine	Cl	O-amino acid
CH ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CH ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CH ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	O-acyl	Br	O	2-Amino-8-methyladenine	Cl	O-amino acid
CH ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CH ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CH ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CH ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CH ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CH ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CH ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	O-acyl	Br	O	6-Methylthymine	Cl	O-acyl
CH ₃	O-acyl	Br	O	6-Methyluracil	Cl	O-acyl
CH ₃	O-acyl	Br	O	8-Methylguanine	Cl	O-acyl
CH ₃	O-acyl	Br	O	6-Methylcytosine	Cl	O-acyl
CH ₃	O-acyl	Br	O	8-Methyladenine	Cl	O-acyl
CH ₃	O-acyl	Br	O	8-Methylhypoxanthine	Cl	O-acyl
CH ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	Cl	O-acyl
CH ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CH ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	Cl	O-acyl
CH ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CH ₃	O-acyl	Br	O	2-Amino-8-methyladenine	Cl	O-acyl
CH ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CH ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	Cl	O-acyl
CH ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CH ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	Cl	O-acyl
CH ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CH ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CH ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CH ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CH ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-acyl
CH ₃	O-acyl	Br	O	6-Methylthymine	Cl	OH
CH ₃	O-acyl	Br	O	6-Methyluracil	Cl	OH
CH ₃	O-acyl	Br	O	8-Methylguanine	Cl	OH
CH ₃	O-acyl	Br	O	6-Methylcytosine	Cl	OH
CH ₃	O-acyl	Br	O	8-Methyladenine	Cl	OH
CH ₃	O-acyl	Br	O	8-Methylhypoxanthine	Cl	OH
CH ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	Cl	OH
CH ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	Cl	OH
CH ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	Cl	OH
CH ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	Cl	OH
CH ₃	O-acyl	Br	O	2-Amino-8-methyladenine	Cl	OH
CH ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	Cl	OH
CH ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	Cl	OH
CH ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	Cl	OH
CH ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	Cl	OH
CH ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	OH
CH ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	OH
CH ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	Cl	OH
CH ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	Cl	OH
CH ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	Cl	OH
CH ₃	O-acyl	Br	O	6-Methylthymine	H	H
CH ₃	O-acyl	Br	O	6-Methyluracil	H	H
CH ₃	O-acyl	Br	O	8-Methylguanine	H	H
CH ₃	O-acyl	Br	O	6-Methylcytosine	H	H
CH ₃	O-acyl	Br	O	8-Methyladenine	H	H

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-acyl	Br	O	8-Methylhypoxanthine	H	H
CH ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	H	H
CH ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	H	H
CH ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	H	H
CH ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	H	H
CH ₃	O-acyl	Br	O	2-Amino-8-methyladenine	H	H
CH ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	H	H
CH ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	H	H
CH ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	H	H
CH ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	H	H
CH ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	H
CH ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	H	H
CH ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	H	H
CH ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	H	H
CH ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	H	H
CH ₃	O-acyl	Br	O	6-Methylthymine	H	O-amino acid
CH ₃	O-acyl	Br	O	6-Methyluracil	H	O-amino acid
CH ₃	O-acyl	Br	O	8-Methylguanine	H	O-amino acid
CH ₃	O-acyl	Br	O	6-Methylcytosine	H	O-amino acid
CH ₃	O-acyl	Br	O	8-Methyladenine	H	O-amino acid
CH ₃	O-acyl	Br	O	8-Methylhypoxanthine	H	O-amino acid
CH ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	H	O-amino acid
CH ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	H	O-amino acid
CH ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	H	O-amino acid
CH ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	H	O-amino acid
CH ₃	O-acyl	Br	O	2-Amino-8-methyladenine	H	O-amino acid
CH ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	H	O-amino acid
CH ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	H	O-amino acid
CH ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	H	O-amino acid
CH ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	H	O-amino acid
CH ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-amino acid
CH ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-amino acid
CH ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	H	O-amino acid
CH ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	H	O-amino acid
CH ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	H	O-amino acid
CH ₃	O-acyl	Br	O	6-Methylthymine	H	O-acyl
CH ₃	O-acyl	Br	O	6-Methyluracil	H	O-acyl
CH ₃	O-acyl	Br	O	8-Methylguanine	H	O-acyl
CH ₃	O-acyl	Br	O	6-Methylcytosine	H	O-acyl
CH ₃	O-acyl	Br	O	8-Methyladenine	H	O-acyl
CH ₃	O-acyl	Br	O	8-Methylhypoxanthine	H	O-acyl
CH ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	H	O-acyl
CH ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	H	O-acyl
CH ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	H	O-acyl
CH ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	H	O-acyl
CH ₃	O-acyl	Br	O	2-Amino-8-methyladenine	H	O-acyl
CH ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	H	O-acyl
CH ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	H	O-acyl
CH ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	H	O-acyl
CH ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	H	O-acyl
CH ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-acyl
CH ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-acyl
CH ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	H	O-acyl
CH ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	H	O-acyl
CH ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	H	O-acyl
CH ₃	O-acyl	Br	O	6-Methylthymine	H	OH
CH ₃	O-acyl	Br	O	6-Methyluracil	H	OH
CH ₃	O-acyl	Br	O	8-Methylguanine	H	OH
CH ₃	O-acyl	Br	O	6-Methylcytosine	H	OH
CH ₃	O-acyl	Br	O	8-Methyladenine	H	OH
CH ₃	O-acyl	Br	O	8-Methylhypoxanthine	H	OH
CH ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	H	OH
CH ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	H	OH
CH ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	H	OH
CH ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	H	OH
CH ₃	O-acyl	Br	O	2-Amino-8-methyladenine	H	OH
CH ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	H	OH
CH ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	H	OH
CH ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	H	OH
CH ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	H	OH
CH ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	OH
CH ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	H	OH
CH ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	H	OH
CH ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	H	OH

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	H	OH
CH ₃	O-acyl	Br	O	6-Methylthymine	OH	H
CH ₃	O-acyl	Br	O	6-Methyluracil	OH	H
CH ₃	O-acyl	Br	O	8-Methylguanine	OH	H
CH ₃	O-acyl	Br	O	6-Methylcytosine	OH	H
CH ₃	O-acyl	Br	O	8-Methyladenine	OH	H
CH ₃	O-acyl	Br	O	8-Methylhypoxanthine	OH	H
CH ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	OH	H
CH ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	OH	H
CH ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	OH	H
CH ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	OH	H
CH ₃	O-acyl	Br	O	2-Amino-8-methyladenine	OH	H
CH ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	OH	H
CH ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	OH	H
CH ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	OH	H
CH ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	OH	H
CH ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	OH	H
CH ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	OH	H
CH ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	OH	H
CH ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	OH	H
CH ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	OH	H
CH ₃	O-acyl	Cl	O	6-Methylthymine	F	H
CH ₃	O-acyl	Cl	O	6-Methyluracil	F	H
CH ₃	O-acyl	Cl	O	8-Methylguanine	F	H
CH ₃	O-acyl	Cl	O	6-Methylcytosine	F	H
CH ₃	O-acyl	Cl	O	8-Methyladenine	F	H
CH ₃	O-acyl	Cl	O	8-Methylhypoxanthine	F	H
CH ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	F	H
CH ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	F	H
CH ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	F	H
CH ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	F	H
CH ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	F	H
CH ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	F	H
CH ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	F	H
CH ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	F	H
CH ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	F	H
CH ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	H
CH ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	F	H
CH ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	F	H
CH ₃	O-acyl	Cl	O	2-N-acetylamino-8-methyladenine	F	H
CH ₃	O-acyl	Cl	O	2-N-acetylamino-8-methylhypoxanthine	F	H
CH ₃	O-acyl	Cl	O	6-Methylthymine	F	O-amino acid
CH ₃	O-acyl	Cl	O	6-Methyluracil	F	O-amino acid
CH ₃	O-acyl	Cl	O	8-Methylguanine	F	O-amino acid
CH ₃	O-acyl	Cl	O	6-Methylcytosine	F	O-amino acid
CH ₃	O-acyl	Cl	O	8-Methyladenine	F	O-amino acid
CH ₃	O-acyl	Cl	O	8-Methylhypoxanthine	F	O-amino acid
CH ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	F	O-amino acid
CH ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	F	O-amino acid
CH ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	F	O-amino acid
CH ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CH ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	F	O-amino acid
CH ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	F	O-amino acid
CH ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	F	O-amino acid
CH ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	F	O-amino acid
CH ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	F	O-amino acid
CH ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CH ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CH ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CH ₃	O-acyl	Cl	O	2-N-acetylamino-8-methyladenine	F	O-amino acid
CH ₃	O-acyl	Cl	O	2-N-acetylamino-8-methylhypoxanthine	F	O-amino acid
CH ₃	O-acyl	Cl	O	6-Methylthymine	F	O-acyl
CH ₃	O-acyl	Cl	O	6-Methyluracil	F	O-acyl
CH ₃	O-acyl	Cl	O	8-Methylguanine	F	O-acyl
CH ₃	O-acyl	Cl	O	6-Methylcytosine	F	O-acyl
CH ₃	O-acyl	Cl	O	8-Methyladenine	F	O-acyl
CH ₃	O-acyl	Cl	O	8-Methylhypoxanthine	F	O-acyl
CH ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	F	O-acyl
CH ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	F	O-acyl
CH ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	F	O-acyl
CH ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CH ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	F	O-acyl
CH ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	F	O-acyl

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	F	O-acyl
CH ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	F	O-acyl
CH ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	F	O-acyl
CH ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CH ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CH ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CH ₃	O-acyl	Cl	O	2-N-acetylamino-8-methyladenine	F	O-acyl
CH ₃	O-acyl	Cl	O	2-N-acetylamino-8-methylhypoxanthine	F	O-acyl
CH ₃	O-acyl	Cl	O	6-Methylthymine	F	OH
CH ₃	O-acyl	Cl	O	6-Methyluracil	F	OH
CH ₃	O-acyl	Cl	O	8-Methylguanine	F	OH
CH ₃	O-acyl	Cl	O	6-Methylcytosine	F	OH
CH ₃	O-acyl	Cl	O	8-Methyladenine	F	OH
CH ₃	O-acyl	Cl	O	8-Methylhypoxanthine	F	OH
CH ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	F	OH
CH ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	F	OH
CH ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	F	OH
CH ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	F	OH
CH ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	F	OH
CH ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	F	OH
CH ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	F	OH
CH ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	F	OH
CH ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	F	OH
CH ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	OH
CH ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	F	OH
CH ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	F	OH
CH ₃	O-acyl	Cl	O	2-N-acetylamino-8-methyladenine	F	OH
CH ₃	O-acyl	Cl	O	2-N-acetylamino-8-methylhypoxanthine	F	OH
CH ₃	O-acyl	Cl	O	6-Methylthymine	Br	H
CH ₃	O-acyl	Cl	O	6-Methyluracil	Br	H
CH ₃	O-acyl	Cl	O	8-Methylguanine	Br	H
CH ₃	O-acyl	Cl	O	6-Methylcytosine	Br	H
CH ₃	O-acyl	Cl	O	8-Methyladenine	Br	H
CH ₃	O-acyl	Cl	O	8-Methylhypoxanthine	Br	H
CH ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	Br	H
CH ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	Br	H
CH ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	Br	H
CH ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	Br	H
CH ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	Br	H
CH ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	Br	H
CH ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	Br	H
CH ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	Br	H
CH ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	Br	H
CH ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	H
CH ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	H
CH ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Br	H
CH ₃	O-acyl	Cl	O	2-N-acetylamino-8-methyladenine	Br	H
CH ₃	O-acyl	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Br	H
CH ₃	O-acyl	Cl	O	6-Methylthymine	Br	O-amino acid
CH ₃	O-acyl	Cl	O	6-Methyluracil	Br	O-amino acid
CH ₃	O-acyl	Cl	O	8-Methylguanine	Br	O-amino acid
CH ₃	O-acyl	Cl	O	6-Methylcytosine	Br	O-amino acid
CH ₃	O-acyl	Cl	O	8-Methyladenine	Br	O-amino acid
CH ₃	O-acyl	Cl	O	8-Methylhypoxanthine	Br	O-amino acid
CH ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	Br	O-amino acid
CH ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CH ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	Br	O-amino acid
CH ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CH ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	Br	O-amino acid
CH ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CH ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	Br	O-amino acid
CH ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CH ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	Br	O-amino acid
CH ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CH ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CH ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CH ₃	O-acyl	Cl	O	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CH ₃	O-acyl	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-amino acid
CH ₃	O-acyl	Cl	O	6-Methylthymine	Br	O-acyl
CH ₃	O-acyl	Cl	O	6-Methyluracil	Br	O-acyl
CH ₃	O-acyl	Cl	O	8-Methylguanine	Br	O-acyl
CH ₃	O-acyl	Cl	O	6-Methylcytosine	Br	O-acyl
CH ₃	O-acyl	Cl	O	8-Methyladenine	Br	O-acyl

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-acyl	Cl	O	8-Methylhypoxanthine	Br	O-acyl
CH ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	Br	O-acyl
CH ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	Br	O-acyl
CH ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	Br	O-acyl
CH ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CH ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	Br	O-acyl
CH ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	Br	O-acyl
CH ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	Br	O-acyl
CH ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	Br	O-acyl
CH ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	Br	O-acyl
CH ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CH ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CH ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CH ₃	O-acyl	Cl	O	2-N-acetylamino-8-methyladenine	Br	O-acyl
CH ₃	O-acyl	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-acyl
CH ₃	O-acyl	Cl	O	6-Methylthymine	Br	OH
CH ₃	O-acyl	Cl	O	6-Methyluracil	Br	OH
CH ₃	O-acyl	Cl	O	8-Methylguanine	Br	OH
CH ₃	O-acyl	Cl	O	6-Methylcytosine	Br	OH
CH ₃	O-acyl	Cl	O	8-Methyladenine	Br	OH
CH ₃	O-acyl	Cl	O	8-Methylhypoxanthine	Br	OH
CH ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	Br	OH
CH ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	Br	OH
CH ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	Br	OH
CH ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	Br	OH
CH ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	Br	OH
CH ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	Br	OH
CH ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	Br	OH
CH ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	Br	OH
CH ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	Br	OH
CH ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	OH
CH ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	OH
CH ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Br	OH
CH ₃	O-acyl	Cl	O	2-N-acetylamino-8-methyladenine	Br	OH
CH ₃	O-acyl	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Br	OH
CH ₃	O-acyl	Cl	O	6-Methylthymine	Cl	H
CH ₃	O-acyl	Cl	O	6-Methyluracil	Cl	H
CH ₃	O-acyl	Cl	O	8-Methylguanine	Cl	H
CH ₃	O-acyl	Cl	O	6-Methylcytosine	Cl	H
CH ₃	O-acyl	Cl	O	8-Methyladenine	Cl	H
CH ₃	O-acyl	Cl	O	8-Methylhypoxanthine	Cl	H
CH ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	Cl	H
CH ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	Cl	H
CH ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	Cl	H
CH ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	Cl	H
CH ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	Cl	H
CH ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	Cl	H
CH ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	Cl	H
CH ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	Cl	H
CH ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	Cl	H
CH ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	H
CH ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	H
CH ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Cl	H
CH ₃	O-acyl	Cl	O	2-N-acetylamino-8-methyladenine	Cl	H
CH ₃	O-acyl	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Cl	H
CH ₃	O-acyl	Cl	O	6-Methylthymine	Cl	O-amino acid
CH ₃	O-acyl	Cl	O	6-Methyluracil	Cl	O-amino acid
CH ₃	O-acyl	Cl	O	8-Methylguanine	Cl	O-amino acid
CH ₃	O-acyl	Cl	O	6-Methylcytosine	Cl	O-amino acid
CH ₃	O-acyl	Cl	O	8-Methyladenine	Cl	O-amino acid
CH ₃	O-acyl	Cl	O	8-Methylhypoxanthine	Cl	O-amino acid
CH ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CH ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CH ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	Cl	O-amino acid
CH ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CH ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CH ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CH ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CH ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CH ₃	O-acyl	Cl	O	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CH ₃	O-acyl	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-amino acid

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-acyl	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	O-acyl	Cl	O	6-Methylthymine	Cl	O-acyl
CH ₃	O-acyl	Cl	O	6-Methyluracil	Cl	O-acyl
CH ₃	O-acyl	Cl	O	8-Methylguanine	Cl	O-acyl
CH ₃	O-acyl	Cl	O	6-Methylcytosine	Cl	O-acyl
CH ₃	O-acyl	Cl	O	8-Methyladenine	Cl	O-acyl
CH ₃	O-acyl	Cl	O	8-Methylhypoxanthine	Cl	O-acyl
CH ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	Cl	O-acyl
CH ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CH ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	Cl	O-acyl
CH ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CH ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	Cl	O-acyl
CH ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CH ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	Cl	O-acyl
CH ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CH ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	Cl	O-acyl
CH ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CH ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CH ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CH ₃	O-acyl	Cl	O	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CH ₃	O-acyl	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-acyl
CH ₃	O-acyl	Cl	O	6-Methylthymine	Cl	OH
CH ₃	O-acyl	Cl	O	6-Methyluracil	Cl	OH
CH ₃	O-acyl	Cl	O	8-Methylguanine	Cl	OH
CH ₃	O-acyl	Cl	O	6-Methylcytosine	Cl	OH
CH ₃	O-acyl	Cl	O	8-Methyladenine	Cl	OH
CH ₃	O-acyl	Cl	O	8-Methylhypoxanthine	Cl	OH
CH ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	Cl	OH
CH ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	Cl	OH
CH ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	Cl	OH
CH ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	Cl	OH
CH ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	Cl	OH
CH ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	Cl	OH
CH ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	Cl	OH
CH ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	Cl	OH
CH ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	Cl	OH
CH ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	OH
CH ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	OH
CH ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Cl	OH
CH ₃	O-acyl	Cl	O	2-N-acetylamino-8-methyladenine	Cl	OH
CH ₃	O-acyl	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Cl	OH
CH ₃	O-acyl	Cl	O	6-Methylthymine	H	H
CH ₃	O-acyl	Cl	O	6-Methyluracil	H	H
CH ₃	O-acyl	Cl	O	8-Methylguanine	H	H
CH ₃	O-acyl	Cl	O	6-Methylcytosine	H	H
CH ₃	O-acyl	Cl	O	8-Methyladenine	H	H
CH ₃	O-acyl	Cl	O	8-Methylhypoxanthine	H	H
CH ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	H	H
CH ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	H	H
CH ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	H	H
CH ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	H	H
CH ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	H	H
CH ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	H	H
CH ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	H	H
CH ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	H	H
CH ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	H	H
CH ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	H
CH ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	H	H
CH ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	H	H
CH ₃	O-acyl	Cl	O	2-N-acetylamino-8-methyladenine	H	H
CH ₃	O-acyl	Cl	O	2-N-acetylamino-8-methylhypoxanthine	H	H
CH ₃	O-acyl	Cl	O	6-Methylthymine	H	O-amino acid
CH ₃	O-acyl	Cl	O	6-Methyluracil	H	O-amino acid
CH ₃	O-acyl	Cl	O	8-Methylguanine	H	O-amino acid
CH ₃	O-acyl	Cl	O	6-Methylcytosine	H	O-amino acid
CH ₃	O-acyl	Cl	O	8-Methyladenine	H	O-amino acid
CH ₃	O-acyl	Cl	O	8-Methylhypoxanthine	H	O-amino acid
CH ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	H	O-amino acid
CH ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	H	O-amino acid
CH ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	H	O-amino acid
CH ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	H	O-amino acid
CH ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	H	O-amino acid
CH ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	H	O-amino acid

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	H	O-amino acid
CH ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	H	O-amino acid
CH ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	H	O-amino acid
CH ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-amino acid
CH ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-amino acid
CH ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	H	O-amino acid
CH ₃	O-acyl	Cl	O	2-N-acetylamino-8-methyladenine	H	O-amino acid
CH ₃	O-acyl	Cl	O	2-N-acetylamino-8-methylhypoxanthine	H	O-amino acid
CH ₃	O-acyl	Cl	O	6-Methylthymine	H	O-acyl
CH ₃	O-acyl	Cl	O	6-Methyluracil	H	O-acyl
CH ₃	O-acyl	Cl	O	8-Methylguanine	H	O-acyl
CH ₃	O-acyl	Cl	O	6-Methylcytosine	H	O-acyl
CH ₃	O-acyl	Cl	O	8-Methyladenine	H	O-acyl
CH ₃	O-acyl	Cl	O	8-Methylhypoxanthine	H	O-acyl
CH ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	H	O-acyl
CH ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	H	O-acyl
CH ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	H	O-acyl
CH ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	H	O-acyl
CH ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	H	O-acyl
CH ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	H	O-acyl
CH ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	H	O-acyl
CH ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	H	O-acyl
CH ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	H	O-acyl
CH ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-acyl
CH ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-acyl
CH ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	H	O-acyl
CH ₃	O-acyl	Cl	O	2-N-acetylamino-8-methyladenine	H	O-acyl
CH ₃	O-acyl	Cl	O	2-N-acetylamino-8-methylhypoxanthine	H	O-acyl
CH ₃	O-acyl	Cl	O	6-Methylthymine	H	OH
CH ₃	O-acyl	Cl	O	6-Methyluracil	H	OH
CH ₃	O-acyl	Cl	O	8-Methylguanine	H	OH
CH ₃	O-acyl	Cl	O	6-Methylcytosine	H	OH
CH ₃	O-acyl	Cl	O	8-Methyladenine	H	OH
CH ₃	O-acyl	Cl	O	8-Methylhypoxanthine	H	OH
CH ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	H	OH
CH ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	H	OH
CH ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	H	OH
CH ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	H	OH
CH ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	H	OH
CH ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	H	OH
CH ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	H	OH
CH ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	H	OH
CH ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	H	OH
CH ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	OH
CH ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	H	OH
CH ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	H	OH
CH ₃	O-acyl	Cl	O	2-N-acetylamino-8-methyladenine	H	OH
CH ₃	O-acyl	Cl	O	2-N-acetylamino-8-methylhypoxanthine	H	OH
CH ₃	O-acyl	Cl	O	6-Methylthymine	OH	H
CH ₃	O-acyl	Cl	O	6-Methyluracil	OH	H
CH ₃	O-acyl	Cl	O	8-Methylguanine	OH	H
CH ₃	O-acyl	Cl	O	6-Methylcytosine	OH	H
CH ₃	O-acyl	Cl	O	8-Methyladenine	OH	H
CH ₃	O-acyl	Cl	O	8-Methylhypoxanthine	OH	H
CH ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	OH	H
CH ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	OH	H
CH ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	OH	H
CH ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	OH	H
CH ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	OH	H
CH ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	OH	H
CH ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	OH	H
CH ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	OH	H
CH ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	OH	H
CH ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	OH	H
CH ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	OH	H
CH ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	OH	H
CH ₃	O-acyl	Cl	O	2-N-acetylamino-8-methyladenine	OH	H
CH ₃	O-acyl	Cl	O	2-N-acetylamino-8-methylhypoxanthine	OH	H
CH ₃	O-acyl	H	O	6-Methylthymine	F	H
CH ₃	O-acyl	H	O	6-Methyluracil	F	H
CH ₃	O-acyl	H	O	8-Methylguanine	F	H
CH ₃	O-acyl	H	O	6-Methylcytosine	F	H
CH ₃	O-acyl	H	O	8-Methyladenine	F	H

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-acyl	H	O	8-Methylhypoxanthine	F	H
CH ₃	O-acyl	H	O	5-Fluoro-6-Methyluracil	F	H
CH ₃	O-acyl	H	O	5-Fluoro-6-Methylcytosine	F	H
CH ₃	O-acyl	H	O	2-Fluoro-8-methyladenine	F	H
CH ₃	O-acyl	H	O	2-Fluoro-8-methylhypoxanthine	F	H
CH ₃	O-acyl	H	O	2-Amino-8-methyladenine	F	H
CH ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	F	H
CH ₃	O-acyl	H	O	2-N-acetyl-8-methylguanine	F	H
CH ₃	O-acyl	H	O	4-N-acetyl-8-methylcytosine	F	H
CH ₃	O-acyl	H	O	6-N-acetyl-8-methyladenine	F	H
CH ₃	O-acyl	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	H
CH ₃	O-acyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	F	H
CH ₃	O-acyl	H	O	6-N-acetyl-2-amino-8-methyladenine	F	H
CH ₃	O-acyl	H	O	2-N-acetylamino-8-methyladenine	F	H
CH ₃	O-acyl	H	O	2-N-acetylamino-8-methylhypoxanthine	F	H
CH ₃	O-acyl	H	O	6-Methylthymine	F	O-amino acid
CH ₃	O-acyl	H	O	6-Methyluracil	F	O-amino acid
CH ₃	O-acyl	H	O	8-Methylguanine	F	O-amino acid
CH ₃	O-acyl	H	O	6-Methylcytosine	F	O-amino acid
CH ₃	O-acyl	H	O	8-Methyladenine	F	O-amino acid
CH ₃	O-acyl	H	O	8-Methylhypoxanthine	F	O-amino acid
CH ₃	O-acyl	H	O	5-Fluoro-6-Methyluracil	F	O-amino acid
CH ₃	O-acyl	H	O	5-Fluoro-6-Methylcytosine	F	O-amino acid
CH ₃	O-acyl	H	O	2-Fluoro-8-methyladenine	F	O-amino acid
CH ₃	O-acyl	H	O	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CH ₃	O-acyl	H	O	2-Amino-8-methyladenine	F	O-amino acid
CH ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	F	O-amino acid
CH ₃	O-acyl	H	O	2-N-acetyl-8-methylguanine	F	O-amino acid
CH ₃	O-acyl	H	O	4-N-acetyl-8-methylcytosine	F	O-amino acid
CH ₃	O-acyl	H	O	6-N-acetyl-8-methyladenine	F	O-amino acid
CH ₃	O-acyl	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CH ₃	O-acyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CH ₃	O-acyl	H	O	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CH ₃	O-acyl	H	O	2-N-acetylamino-8-methyladenine	F	O-amino acid
CH ₃	O-acyl	H	O	2-N-acetylamino-8-methylhypoxanthine	F	O-amino acid
CH ₃	O-acyl	H	O	6-Methylthymine	F	O-acyl
CH ₃	O-acyl	H	O	6-Methyluracil	F	O-acyl
CH ₃	O-acyl	H	O	8-Methylguanine	F	O-acyl
CH ₃	O-acyl	H	O	6-Methylcytosine	F	O-acyl
CH ₃	O-acyl	H	O	8-Methyladenine	F	O-acyl
CH ₃	O-acyl	H	O	8-Methylhypoxanthine	F	O-acyl
CH ₃	O-acyl	H	O	5-Fluoro-6-Methyluracil	F	O-acyl
CH ₃	O-acyl	H	O	5-Fluoro-6-Methylcytosine	F	O-acyl
CH ₃	O-acyl	H	O	2-Fluoro-8-methyladenine	F	O-acyl
CH ₃	O-acyl	H	O	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CH ₃	O-acyl	H	O	2-Amino-8-methyladenine	F	O-acyl
CH ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	F	O-acyl
CH ₃	O-acyl	H	O	2-N-acetyl-8-methylguanine	F	O-acyl
CH ₃	O-acyl	H	O	4-N-acetyl-8-methylcytosine	F	O-acyl
CH ₃	O-acyl	H	O	6-N-acetyl-8-methyladenine	F	O-acyl
CH ₃	O-acyl	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CH ₃	O-acyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CH ₃	O-acyl	H	O	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CH ₃	O-acyl	H	O	2-N-acetylamino-8-methyladenine	F	O-acyl
CH ₃	O-acyl	H	O	2-N-acetylamino-8-methylhypoxanthine	F	O-acyl
CH ₃	O-acyl	H	O	6-Methylthymine	F	OH
CH ₃	O-acyl	H	O	6-Methyluracil	F	OH
CH ₃	O-acyl	H	O	8-Methylguanine	F	OH
CH ₃	O-acyl	H	O	6-Methylcytosine	F	OH
CH ₃	O-acyl	H	O	8-Methyladenine	F	OH
CH ₃	O-acyl	H	O	8-Methylhypoxanthine	F	OH
CH ₃	O-acyl	H	O	5-Fluoro-6-Methyluracil	F	OH
CH ₃	O-acyl	H	O	5-Fluoro-6-Methylcytosine	F	OH
CH ₃	O-acyl	H	O	2-Fluoro-8-methyladenine	F	OH
CH ₃	O-acyl	H	O	2-Fluoro-8-methylhypoxanthine	F	OH
CH ₃	O-acyl	H	O	2-Amino-8-methyladenine	F	OH
CH ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	F	OH
CH ₃	O-acyl	H	O	2-N-acetyl-8-methylguanine	F	OH
CH ₃	O-acyl	H	O	4-N-acetyl-8-methylcytosine	F	OH
CH ₃	O-acyl	H	O	6-N-acetyl-8-methyladenine	F	OH
CH ₃	O-acyl	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	OH
CH ₃	O-acyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	F	OH
CH ₃	O-acyl	H	O	6-N-acetyl-2-amino-8-methyladenine	F	OH
CH ₃	O-acyl	H	O	2-N-acetylamino-8-methyladenine	F	OH

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-acyl	H	O	2-N-acetylamino-8-methylhypoxanthine	F	OH
CH ₃	O-acyl	H	O	6-Methylthymine	Br	H
CH ₃	O-acyl	H	O	6-Methyluracil	Br	H
CH ₃	O-acyl	H	O	8-Methylguanine	Br	H
CH ₃	O-acyl	H	O	6-Methylcytosine	Br	H
CH ₃	O-acyl	H	O	8-Methyladenine	Br	H
CH ₃	O-acyl	H	O	8-Methylhypoxanthine	Br	H
CH ₃	O-acyl	H	O	5-Fluoro-6-Methyluracil	Br	H
CH ₃	O-acyl	H	O	5-Fluoro-6-Methylcytosine	Br	H
CH ₃	O-acyl	H	O	2-Fluoro-8-methyladenine	Br	H
CH ₃	O-acyl	H	O	2-Fluoro-8-methylhypoxanthine	Br	H
CH ₃	O-acyl	H	O	2-Amino-8-methyladenine	Br	H
CH ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	Br	H
CH ₃	O-acyl	H	O	2-N-acetyl-8-methylguanine	Br	H
CH ₃	O-acyl	H	O	4-N-acetyl-8-methylcytosine	Br	H
CH ₃	O-acyl	H	O	6-N-acetyl-8-methyladenine	Br	H
CH ₃	O-acyl	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	H
CH ₃	O-acyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	H
CH ₃	O-acyl	H	O	6-N-acetyl-2-amino-8-methyladenine	Br	H
CH ₃	O-acyl	H	O	2-N-acetylamino-8-methyladenine	Br	H
CH ₃	O-acyl	H	O	2-N-acetylamino-8-methylhypoxanthine	Br	H
CH ₃	O-acyl	H	O	6-Methylthymine	Br	O-amino acid
CH ₃	O-acyl	H	O	6-Methyluracil	Br	O-amino acid
CH ₃	O-acyl	H	O	8-Methylguanine	Br	O-amino acid
CH ₃	O-acyl	H	O	6-Methylcytosine	Br	O-amino acid
CH ₃	O-acyl	H	O	8-Methyladenine	Br	O-amino acid
CH ₃	O-acyl	H	O	8-Methylhypoxanthine	Br	O-amino acid
CH ₃	O-acyl	H	O	5-Fluoro-6-Methyluracil	Br	O-amino acid
CH ₃	O-acyl	H	O	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CH ₃	O-acyl	H	O	2-Fluoro-8-methyladenine	Br	O-amino acid
CH ₃	O-acyl	H	O	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CH ₃	O-acyl	H	O	2-Amino-8-methyladenine	Br	O-amino acid
CH ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CH ₃	O-acyl	H	O	2-N-acetyl-8-methylguanine	Br	O-amino acid
CH ₃	O-acyl	H	O	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CH ₃	O-acyl	H	O	6-N-acetyl-8-methyladenine	Br	O-amino acid
CH ₃	O-acyl	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CH ₃	O-acyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CH ₃	O-acyl	H	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CH ₃	O-acyl	H	O	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CH ₃	O-acyl	H	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-amino acid
CH ₃	O-acyl	H	O	6-Methylthymine	Br	O-acyl
CH ₃	O-acyl	H	O	6-Methyluracil	Br	O-acyl
CH ₃	O-acyl	H	O	8-Methylguanine	Br	O-acyl
CH ₃	O-acyl	H	O	6-Methylcytosine	Br	O-acyl
CH ₃	O-acyl	H	O	8-Methyladenine	Br	O-acyl
CH ₃	O-acyl	H	O	8-Methylhypoxanthine	Br	O-acyl
CH ₃	O-acyl	H	O	5-Fluoro-6-Methyluracil	Br	O-acyl
CH ₃	O-acyl	H	O	5-Fluoro-6-Methylcytosine	Br	O-acyl
CH ₃	O-acyl	H	O	2-Fluoro-8-methyladenine	Br	O-acyl
CH ₃	O-acyl	H	O	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CH ₃	O-acyl	H	O	2-Amino-8-methyladenine	Br	O-acyl
CH ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	Br	O-acyl
CH ₃	O-acyl	H	O	2-N-acetyl-8-methylguanine	Br	O-acyl
CH ₃	O-acyl	H	O	4-N-acetyl-8-methylcytosine	Br	O-acyl
CH ₃	O-acyl	H	O	6-N-acetyl-8-methyladenine	Br	O-acyl
CH ₃	O-acyl	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CH ₃	O-acyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CH ₃	O-acyl	H	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CH ₃	O-acyl	H	O	2-N-acetylamino-8-methyladenine	Br	O-acyl
CH ₃	O-acyl	H	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-acyl
CH ₃	O-acyl	H	O	6-Methylthymine	Br	OH
CH ₃	O-acyl	H	O	6-Methyluracil	Br	OH
CH ₃	O-acyl	H	O	8-Methylguanine	Br	OH
CH ₃	O-acyl	H	O	6-Methylcytosine	Br	OH
CH ₃	O-acyl	H	O	8-Methyladenine	Br	OH
CH ₃	O-acyl	H	O	8-Methylhypoxanthine	Br	OH
CH ₃	O-acyl	H	O	5-Fluoro-6-Methyluracil	Br	OH
CH ₃	O-acyl	H	O	5-Fluoro-6-Methylcytosine	Br	OH
CH ₃	O-acyl	H	O	2-Fluoro-8-methyladenine	Br	OH
CH ₃	O-acyl	H	O	2-Fluoro-8-methylhypoxanthine	Br	OH
CH ₃	O-acyl	H	O	2-Amino-8-methyladenine	Br	OH
CH ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	Br	OH

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁹	R ⁹
CH ₃	O-acetyl	H	O	2-N-acetyl-8-methylguanine	Br	OH
CH ₃	O-acetyl	H	O	4-N-acetyl-8-methylcytosine	Br	OH
CH ₃	O-acetyl	H	O	6-N-acetyl-8-methyladenine	Br	OH
CH ₃	O-acetyl	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	OH
CH ₃	O-acetyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	OH
CH ₃	O-acetyl	H	O	6-N-acetyl-2-amino-8-methyladenine	Br	OH
CH ₃	O-acetyl	H	O	2-N-acetylamino-8-methyladenine	Br	OH
CH ₃	O-acetyl	H	O	2-N-acetylamino-8-methylhypoxanthine	Br	OH
CH ₃	O-acetyl	H	O	6-Methylthymine	Cl	H
CH ₃	O-acetyl	H	O	6-Methyluracil	Cl	H
CH ₃	O-acetyl	H	O	8-Methylguanine	Cl	H
CH ₃	O-acetyl	H	O	6-Methylcytosine	Cl	H
CH ₃	O-acetyl	H	O	8-Methyladenine	Cl	H
CH ₃	O-acetyl	H	O	8-Methylhypoxanthine	Cl	H
CH ₃	O-acetyl	H	O	5-Fluoro-6-Methyluracil	Cl	H
CH ₃	O-acetyl	H	O	5-Fluoro-6-Methylcytosine	Cl	H
CH ₃	O-acetyl	H	O	2-Fluoro-8-methyladenine	Cl	H
CH ₃	O-acetyl	H	O	2-Fluoro-8-methylhypoxanthine	Cl	H
CH ₃	O-acetyl	H	O	2-Amino-8-methyladenine	Cl	H
CH ₃	O-acetyl	H	O	2-Amino-8-methylhypoxanthine	Cl	H
CH ₃	O-acetyl	H	O	2-N-acetyl-8-methylguanine	Cl	H
CH ₃	O-acetyl	H	O	4-N-acetyl-8-methylcytosine	Cl	H
CH ₃	O-acetyl	H	O	6-N-acetyl-8-methyladenine	Cl	H
CH ₃	O-acetyl	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	H
CH ₃	O-acetyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	H
CH ₃	O-acetyl	H	O	6-N-acetyl-2-amino-8-methyladenine	Cl	H
CH ₃	O-acetyl	H	O	2-N-acetylamino-8-methyladenine	Cl	H
CH ₃	O-acetyl	H	O	2-N-acetylamino-8-methylhypoxanthine	Cl	H
CH ₃	O-acetyl	H	O	6-Methylthymine	Cl	O-amino acid
CH ₃	O-acetyl	H	O	6-Methyluracil	Cl	O-amino acid
CH ₃	O-acetyl	H	O	8-Methylguanine	Cl	O-amino acid
CH ₃	O-acetyl	H	O	6-Methylcytosine	Cl	O-amino acid
CH ₃	O-acetyl	H	O	8-Methyladenine	Cl	O-amino acid
CH ₃	O-acetyl	H	O	8-Methylhypoxanthine	Cl	O-amino acid
CH ₃	O-acetyl	H	O	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CH ₃	O-acetyl	H	O	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CH ₃	O-acetyl	H	O	2-Fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	O-acetyl	H	O	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	O-acetyl	H	O	2-Amino-8-methyladenine	Cl	O-amino acid
CH ₃	O-acetyl	H	O	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	O-acetyl	H	O	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CH ₃	O-acetyl	H	O	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CH ₃	O-acetyl	H	O	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CH ₃	O-acetyl	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CH ₃	O-acetyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	O-acetyl	H	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CH ₃	O-acetyl	H	O	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CH ₃	O-acetyl	H	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	O-acetyl	H	O	6-Methylthymine	Cl	O-acetyl
CH ₃	O-acetyl	H	O	6-Methyluracil	Cl	O-acetyl
CH ₃	O-acetyl	H	O	8-Methylguanine	Cl	O-acetyl
CH ₃	O-acetyl	H	O	6-Methylcytosine	Cl	O-acetyl
CH ₃	O-acetyl	H	O	8-Methyladenine	Cl	O-acetyl
CH ₃	O-acetyl	H	O	8-Methylhypoxanthine	Cl	O-acetyl
CH ₃	O-acetyl	H	O	5-Fluoro-6-Methyluracil	Cl	O-acetyl
CH ₃	O-acetyl	H	O	5-Fluoro-6-Methylcytosine	Cl	O-acetyl
CH ₃	O-acetyl	H	O	2-Fluoro-8-methyladenine	Cl	O-acetyl
CH ₃	O-acetyl	H	O	2-Fluoro-8-methylhypoxanthine	Cl	O-acetyl
CH ₃	O-acetyl	H	O	2-Amino-8-methyladenine	Cl	O-acetyl
CH ₃	O-acetyl	H	O	2-Amino-8-methylhypoxanthine	Cl	O-acetyl
CH ₃	O-acetyl	H	O	2-N-acetyl-8-methylguanine	Cl	O-acetyl
CH ₃	O-acetyl	H	O	4-N-acetyl-8-methylcytosine	Cl	O-acetyl
CH ₃	O-acetyl	H	O	6-N-acetyl-8-methyladenine	Cl	O-acetyl
CH ₃	O-acetyl	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acetyl
CH ₃	O-acetyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acetyl
CH ₃	O-acetyl	H	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acetyl
CH ₃	O-acetyl	H	O	2-N-acetylamino-8-methyladenine	Cl	O-acetyl
CH ₃	O-acetyl	H	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-acetyl
CH ₃	O-acetyl	H	O	6-Methylthymine	Cl	OH
CH ₃	O-acetyl	H	O	6-Methyluracil	Cl	OH
CH ₃	O-acetyl	H	O	8-Methylguanine	Cl	OH
CH ₃	O-acetyl	H	O	6-Methylcytosine	Cl	OH
CH ₃	O-acetyl	H	O	8-Methyladenine	Cl	OH

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-acyl	H	O	8-Methylhypoxanthine	Cl	OH
CH ₃	O-acyl	H	O	5-Fluoro-6-Methyluracil	Cl	OH
CH ₃	O-acyl	H	O	5-Fluoro-6-Methylcytosine	Cl	OH
CH ₃	O-acyl	H	O	2-Fluoro-8-methyladenine	Cl	OH
CH ₃	O-acyl	H	O	2-Fluoro-8-methylhypoxanthine	Cl	OH
CH ₃	O-acyl	H	O	2-Amino-8-methyladenine	Cl	OH
CH ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	Cl	OH
CH ₃	O-acyl	H	O	2-N-acetyl-8-methylguanine	Cl	OH
CH ₃	O-acyl	H	O	4-N-acetyl-8-methylcytosine	Cl	OH
CH ₃	O-acyl	H	O	6-N-acetyl-8-methyladenine	Cl	OH
CH ₃	O-acyl	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	OH
CH ₃	O-acyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	OH
CH ₃	O-acyl	H	O	6-N-acetyl-2-amino-8-methyladenine	Cl	OH
CH ₃	O-acyl	H	O	2-N-acetylamino-8-methyladenine	Cl	OH
CH ₃	O-acyl	H	O	2-N-acetylamino-8-methylhypoxanthine	Cl	OH
CH ₃	O-acyl	H	O	6-Methylthymine	H	H
CH ₃	O-acyl	H	O	6-Methyluracil	H	H
CH ₃	O-acyl	H	O	8-Methylguanine	H	H
CH ₃	O-acyl	H	O	6-Methylcytosine	H	H
CH ₃	O-acyl	H	O	8-Methyladenine	H	H
CH ₃	O-acyl	H	O	8-Methylhypoxanthine	H	H
CH ₃	O-acyl	H	O	5-Fluoro-6-Methyluracil	H	H
CH ₃	O-acyl	H	O	5-Fluoro-6-Methylcytosine	H	H
CH ₃	O-acyl	H	O	2-Fluoro-8-methyladenine	H	H
CH ₃	O-acyl	H	O	2-Fluoro-8-methylhypoxanthine	H	H
CH ₃	O-acyl	H	O	2-Amino-8-methyladenine	H	H
CH ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	H	H
CH ₃	O-acyl	H	O	2-N-acetyl-8-methylguanine	H	H
CH ₃	O-acyl	H	O	4-N-acetyl-8-methylcytosine	H	H
CH ₃	O-acyl	H	O	6-N-acetyl-8-methyladenine	H	H
CH ₃	O-acyl	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	H
CH ₃	O-acyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	H	H
CH ₃	O-acyl	H	O	6-N-acetyl-2-amino-8-methyladenine	H	H
CH ₃	O-acyl	H	O	2-N-acetylamino-8-methyladenine	H	H
CH ₃	O-acyl	H	O	2-N-acetylamino-8-methylhypoxanthine	H	H
CH ₃	O-acyl	H	O	6-Methylthymine	H	O-amino acid
CH ₃	O-acyl	H	O	6-Methyluracil	H	O-amino acid
CH ₃	O-acyl	H	O	8-Methylguanine	H	O-amino acid
CH ₃	O-acyl	H	O	6-Methylcytosine	H	O-amino acid
CH ₃	O-acyl	H	O	8-Methyladenine	H	O-amino acid
CH ₃	O-acyl	H	O	8-Methylhypoxanthine	H	O-amino acid
CH ₃	O-acyl	H	O	5-Fluoro-6-Methyluracil	H	O-amino acid
CH ₃	O-acyl	H	O	5-Fluoro-6-Methylcytosine	H	O-amino acid
CH ₃	O-acyl	H	O	2-Fluoro-8-methyladenine	H	O-amino acid
CH ₃	O-acyl	H	O	2-Fluoro-8-methylhypoxanthine	H	O-amino acid
CH ₃	O-acyl	H	O	2-Amino-8-methyladenine	H	O-amino acid
CH ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	H	O-amino acid
CH ₃	O-acyl	H	O	2-N-acetyl-8-methylguanine	H	O-amino acid
CH ₃	O-acyl	H	O	4-N-acetyl-8-methylcytosine	H	O-amino acid
CH ₃	O-acyl	H	O	6-N-acetyl-8-methyladenine	H	O-amino acid
CH ₃	O-acyl	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-amino acid
CH ₃	O-acyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-amino acid
CH ₃	O-acyl	H	O	6-N-acetyl-2-amino-8-methyladenine	H	O-amino acid
CH ₃	O-acyl	H	O	2-N-acetylamino-8-methyladenine	H	O-amino acid
CH ₃	O-acyl	H	O	2-N-acetylamino-8-methylhypoxanthine	H	O-amino acid
CH ₃	O-acyl	H	O	6-Methylthymine	H	O-acyl
CH ₃	O-acyl	H	O	6-Methyluracil	H	O-acyl
CH ₃	O-acyl	H	O	8-Methylguanine	H	O-acyl
CH ₃	O-acyl	H	O	6-Methylcytosine	H	O-acyl
CH ₃	O-acyl	H	O	8-Methyladenine	H	O-acyl
CH ₃	O-acyl	H	O	8-Methylhypoxanthine	H	O-acyl
CH ₃	O-acyl	H	O	5-Fluoro-6-Methyluracil	H	O-acyl
CH ₃	O-acyl	H	O	5-Fluoro-6-Methylcytosine	H	O-acyl
CH ₃	O-acyl	H	O	2-Fluoro-8-methyladenine	H	O-acyl
CH ₃	O-acyl	H	O	2-Fluoro-8-methylhypoxanthine	H	O-acyl
CH ₃	O-acyl	H	O	2-Amino-8-methyladenine	H	O-acyl
CH ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	H	O-acyl
CH ₃	O-acyl	H	O	2-N-acetyl-8-methylguanine	H	O-acyl
CH ₃	O-acyl	H	O	4-N-acetyl-8-methylcytosine	H	O-acyl
CH ₃	O-acyl	H	O	6-N-acetyl-8-methyladenine	H	O-acyl
CH ₃	O-acyl	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-acyl
CH ₃	O-acyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-acyl
CH ₃	O-acyl	H	O	6-N-acetyl-2-amino-8-methyladenine	H	O-acyl
CH ₃	O-acyl	H	O	2-N-acetylamino-8-methyladenine	H	O-acyl
CH ₃	O-acyl	H	O	2-N-acetylamino-8-methylhypoxanthine	H	O-acyl

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-acyl	H	O	2-N-acetylamino-8-methylhypoxanthine	H	O-acyl
CH ₃	O-acyl	H	O	6-Methylthymine	H	OH
CH ₃	O-acyl	H	O	6-Methyluracil	H	OH
CH ₃	O-acyl	H	O	8-Methylguanine	H	OH
CH ₃	O-acyl	H	O	6-Methylcytosine	H	OH
CH ₃	O-acyl	H	O	8-Methyladenine	H	OH
CH ₃	O-acyl	H	O	8-Methylhypoxanthine	H	OH
CH ₃	O-acyl	H	O	5-Fluoro-6-Methyluracil	H	OH
CH ₃	O-acyl	H	O	5-Fluoro-6-Methylcytosine	H	OH
CH ₃	O-acyl	H	O	2-Fluoro-8-methyladenine	H	OH
CH ₃	O-acyl	H	O	2-Fluoro-8-methylhypoxanthine	H	OH
CH ₃	O-acyl	H	O	2-Amino-8-methyladenine	H	OH
CH ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	H	OH
CH ₃	O-acyl	H	O	2-N-acetyl-8-methylguanine	H	OH
CH ₃	O-acyl	H	O	4-N-acetyl-8-methylcytosine	H	OH
CH ₃	O-acyl	H	O	6-N-acetyl-8-methyladenine	H	OH
CH ₃	O-acyl	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	OH
CH ₃	O-acyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	H	OH
CH ₃	O-acyl	H	O	6-N-acetyl-2-amino-8-methyladenine	H	OH
CH ₃	O-acyl	H	O	2-N-acetylamino-8-methyladenine	H	OH
CH ₃	O-acyl	H	O	2-N-acetylamino-8-methylhypoxanthine	H	OH
CH ₃	O-acyl	H	O	6-Methylthymine	OH	H
CH ₃	O-acyl	H	O	6-Methyluracil	OH	H
CH ₃	O-acyl	H	O	8-Methylguanine	OH	H
CH ₃	O-acyl	H	O	6-Methylcytosine	OH	H
CH ₃	O-acyl	H	O	8-Methyladenine	OH	H
CH ₃	O-acyl	H	O	8-Methylhypoxanthine	OH	H
CH ₃	O-acyl	H	O	5-Fluoro-6-Methyluracil	OH	H
CH ₃	O-acyl	H	O	5-Fluoro-6-Methylcytosine	OH	H
CH ₃	O-acyl	H	O	2-Fluoro-8-methyladenine	OH	H
CH ₃	O-acyl	H	O	2-Fluoro-8-methylhypoxanthine	OH	H
CH ₃	O-acyl	H	O	2-Amino-8-methyladenine	OH	H
CH ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	OH	H
CH ₃	O-acyl	H	O	2-N-acetyl-8-methylguanine	OH	H
CH ₃	O-acyl	H	O	4-N-acetyl-8-methylcytosine	OH	H
CH ₃	O-acyl	H	O	6-N-acetyl-8-methyladenine	OH	H
CH ₃	O-acyl	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	OH	H
CH ₃	O-acyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	OH	H
CH ₃	O-acyl	H	O	6-N-acetyl-2-amino-8-methyladenine	OH	H
CH ₃	O-acyl	H	O	2-N-acetylamino-8-methyladenine	OH	H
CH ₃	O-acyl	H	O	2-N-acetylamino-8-methylhypoxanthine	OH	H
CH ₃	O-amino acid	F	O	6-Methylthymine	F	H
CH ₃	O-amino acid	F	O	6-Methyluracil	F	H
CH ₃	O-amino acid	F	O	8-Methylguanine	F	H
CH ₃	O-amino acid	F	O	6-Methylcytosine	F	H
CH ₃	O-amino acid	F	O	8-Methyladenine	F	H
CH ₃	O-amino acid	F	O	8-Methylhypoxanthine	F	H
CH ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	F	H
CH ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	F	H
CH ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	F	H
CH ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	F	H
CH ₃	O-amino acid	F	O	2-Amino-8-methyladenine	F	H
CH ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	F	H
CH ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	F	H
CH ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	F	H
CH ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	F	H
CH ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	H
CH ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	F	H
CH ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	F	H
CH ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	F	H
CH ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	F	H
CH ₃	O-amino acid	F	O	6-Methylthymine	F	O-amino acid
CH ₃	O-amino acid	F	O	6-Methyluracil	F	O-amino acid
CH ₃	O-amino acid	F	O	8-Methylguanine	F	O-amino acid
CH ₃	O-amino acid	F	O	6-Methylcytosine	F	O-amino acid
CH ₃	O-amino acid	F	O	8-Methyladenine	F	O-amino acid
CH ₃	O-amino acid	F	O	8-Methylhypoxanthine	F	O-amino acid
CH ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	F	O-amino acid
CH ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	F	O-amino acid
CH ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	F	O-amino acid
CH ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CH ₃	O-amino acid	F	O	2-Amino-8-methyladenine	F	O-amino acid
CH ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	F	O-amino acid

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	F	O-amino acid
CH ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	F	O-amino acid
CH ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	F	O-amino acid
CH ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CH ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CH ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CH ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	F	O-amino acid
CH ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	F	O-amino acid
CH ₃	O-amino acid	F	O	6-Methylthymine	F	O-acyl
CH ₃	O-amino acid	F	O	6-Methyluracil	F	O-acyl
CH ₃	O-amino acid	F	O	8-Methylguanine	F	O-acyl
CH ₃	O-amino acid	F	O	6-Methylcytosine	F	O-acyl
CH ₃	O-amino acid	F	O	8-Methyladenine	F	O-acyl
CH ₃	O-amino acid	F	O	8-Methylhypoxanthine	F	O-acyl
CH ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	F	O-acyl
CH ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	F	O-acyl
CH ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	F	O-acyl
CH ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CH ₃	O-amino acid	F	O	2-Amino-8-methyladenine	F	O-acyl
CH ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	F	O-acyl
CH ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	F	O-acyl
CH ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	F	O-acyl
CH ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	F	O-acyl
CH ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CH ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CH ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CH ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	F	O-acyl
CH ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	F	O-acyl
CH ₃	O-amino acid	F	O	6-Methylthymine	F	OH
CH ₃	O-amino acid	F	O	6-Methyluracil	F	OH
CH ₃	O-amino acid	F	O	8-Methylguanine	F	OH
CH ₃	O-amino acid	F	O	6-Methylcytosine	F	OH
CH ₃	O-amino acid	F	O	8-Methyladenine	F	OH
CH ₃	O-amino acid	F	O	8-Methylhypoxanthine	F	OH
CH ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	F	OH
CH ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	F	OH
CH ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	F	OH
CH ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	F	OH
CH ₃	O-amino acid	F	O	2-Amino-8-methyladenine	F	OH
CH ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	F	OH
CH ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	F	OH
CH ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	F	OH
CH ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	F	OH
CH ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	OH
CH ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	F	OH
CH ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	F	OH
CH ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	F	OH
CH ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	F	OH
CH ₃	O-amino acid	F	O	6-Methylthymine	Br	H
CH ₃	O-amino acid	F	O	6-Methyluracil	Br	H
CH ₃	O-amino acid	F	O	8-Methylguanine	Br	H
CH ₃	O-amino acid	F	O	6-Methylcytosine	Br	H
CH ₃	O-amino acid	F	O	8-Methyladenine	Br	H
CH ₃	O-amino acid	F	O	8-Methylhypoxanthine	Br	H
CH ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	Br	H
CH ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	Br	H
CH ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	Br	H
CH ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	Br	H
CH ₃	O-amino acid	F	O	2-Amino-8-methyladenine	Br	H
CH ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	Br	H
CH ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	Br	H
CH ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	Br	H
CH ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	Br	H
CH ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	H
CH ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	H
CH ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	Br	H
CH ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	Br	H
CH ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	Br	H
CH ₃	O-amino acid	F	O	6-Methylthymine	Br	O-amino acid
CH ₃	O-amino acid	F	O	6-Methyluracil	Br	O-amino acid
CH ₃	O-amino acid	F	O	8-Methylguanine	Br	O-amino acid
CH ₃	O-amino acid	F	O	6-Methylcytosine	Br	O-amino acid
CH ₃	O-amino acid	F	O	8-Methyladenine	Br	O-amino acid

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-amino acid	F	O	8-Methylhypoxanthine	Br	O-amino acid
CH ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	Br	O-amino acid
CH ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CH ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	Br	O-amino acid
CH ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CH ₃	O-amino acid	F	O	2-Amino-8-methyladenine	Br	O-amino acid
CH ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CH ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	Br	O-amino acid
CH ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CH ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	Br	O-amino acid
CH ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CH ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CH ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CH ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CH ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-amino acid
CH ₃	O-amino acid	F	O	6-Methylthymine	Br	O-acyl
CH ₃	O-amino acid	F	O	6-Methyluracil	Br	O-acyl
CH ₃	O-amino acid	F	O	8-Methylguanine	Br	O-acyl
CH ₃	O-amino acid	F	O	6-Methylcytosine	Br	O-acyl
CH ₃	O-amino acid	F	O	8-Methyladenine	Br	O-acyl
CH ₃	O-amino acid	F	O	8-Methylhypoxanthine	Br	O-acyl
CH ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	Br	O-acyl
CH ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	Br	O-acyl
CH ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	Br	O-acyl
CH ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CH ₃	O-amino acid	F	O	2-Amino-8-methyladenine	Br	O-acyl
CH ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	Br	O-acyl
CH ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	Br	O-acyl
CH ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	Br	O-acyl
CH ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	Br	O-acyl
CH ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CH ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CH ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CH ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	Br	O-acyl
CH ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-acyl
CH ₃	O-amino acid	F	O	6-Methylthymine	Br	OH
CH ₃	O-amino acid	F	O	6-Methyluracil	Br	OH
CH ₃	O-amino acid	F	O	8-Methylguanine	Br	OH
CH ₃	O-amino acid	F	O	6-Methylcytosine	Br	OH
CH ₃	O-amino acid	F	O	8-Methyladenine	Br	OH
CH ₃	O-amino acid	F	O	8-Methylhypoxanthine	Br	OH
CH ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	Br	OH
CH ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	Br	OH
CH ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	Br	OH
CH ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	Br	OH
CH ₃	O-amino acid	F	O	2-Amino-8-methyladenine	Br	OH
CH ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	Br	OH
CH ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	Br	OH
CH ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	Br	OH
CH ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	Br	OH
CH ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	OH
CH ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	OH
CH ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	Br	OH
CH ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	Br	OH
CH ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	Br	OH
CH ₃	O-amino acid	F	O	6-Methylthymine	Cl	H
CH ₃	O-amino acid	F	O	6-Methyluracil	Cl	H
CH ₃	O-amino acid	F	O	8-Methylguanine	Cl	H
CH ₃	O-amino acid	F	O	6-Methylcytosine	Cl	H
CH ₃	O-amino acid	F	O	8-Methyladenine	Cl	H
CH ₃	O-amino acid	F	O	8-Methylhypoxanthine	Cl	H
CH ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	Cl	H
CH ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	Cl	H
CH ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	Cl	H
CH ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	Cl	H
CH ₃	O-amino acid	F	O	2-Amino-8-methyladenine	Cl	H
CH ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	Cl	H
CH ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	Cl	H
CH ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	Cl	H
CH ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	Cl	H
CH ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	H
CH ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	H
CH ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	Cl	H
CH ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	Cl	H

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	Cl	H
CH ₃	O-amino acid	F	O	6-Methylthymine	Cl	O-amino acid
CH ₃	O-amino acid	F	O	6-Methyluracil	Cl	O-amino acid
CH ₃	O-amino acid	F	O	8-Methylguanine	Cl	O-amino acid
CH ₃	O-amino acid	F	O	6-Methylcytosine	Cl	O-amino acid
CH ₃	O-amino acid	F	O	8-Methyladenine	Cl	O-amino acid
CH ₃	O-amino acid	F	O	8-Methylhypoxanthine	Cl	O-amino acid
CH ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CH ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CH ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	O-amino acid	F	O	2-Amino-8-methyladenine	Cl	O-amino acid
CH ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CH ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CH ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CH ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CH ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CH ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CH ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	O-amino acid	F	O	6-Methylthymine	Cl	O-acyl
CH ₃	O-amino acid	F	O	6-Methyluracil	Cl	O-acyl
CH ₃	O-amino acid	F	O	8-Methylguanine	Cl	O-acyl
CH ₃	O-amino acid	F	O	6-Methylcytosine	Cl	O-acyl
CH ₃	O-amino acid	F	O	8-Methyladenine	Cl	O-acyl
CH ₃	O-amino acid	F	O	8-Methylhypoxanthine	Cl	O-acyl
CH ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	Cl	O-acyl
CH ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CH ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	Cl	O-acyl
CH ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CH ₃	O-amino acid	F	O	2-Amino-8-methyladenine	Cl	O-acyl
CH ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CH ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	Cl	O-acyl
CH ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CH ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	Cl	O-acyl
CH ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CH ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CH ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CH ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CH ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-acyl
CH ₃	O-amino acid	F	O	6-Methylthymine	Cl	OH
CH ₃	O-amino acid	F	O	6-Methyluracil	Cl	OH
CH ₃	O-amino acid	F	O	8-Methylguanine	Cl	OH
CH ₃	O-amino acid	F	O	6-Methylcytosine	Cl	OH
CH ₃	O-amino acid	F	O	8-Methyladenine	Cl	OH
CH ₃	O-amino acid	F	O	8-Methylhypoxanthine	Cl	OH
CH ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	Cl	OH
CH ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	Cl	OH
CH ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	Cl	OH
CH ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	Cl	OH
CH ₃	O-amino acid	F	O	2-Amino-8-methyladenine	Cl	OH
CH ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	Cl	OH
CH ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	Cl	OH
CH ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	Cl	OH
CH ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	Cl	OH
CH ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	OH
CH ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	OH
CH ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	Cl	OH
CH ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	Cl	OH
CH ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	Cl	OH
CH ₃	O-amino acid	F	O	6-Methylthymine	H	H
CH ₃	O-amino acid	F	O	6-Methyluracil	H	H
CH ₃	O-amino acid	F	O	8-Methylguanine	H	H
CH ₃	O-amino acid	F	O	6-Methylcytosine	H	H
CH ₃	O-amino acid	F	O	8-Methyladenine	H	H
CH ₃	O-amino acid	F	O	8-Methylhypoxanthine	H	H
CH ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	H	H
CH ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	H	H
CH ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	H	H
CH ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	H	H
CH ₃	O-amino acid	F	O	2-Amino-8-methyladenine	H	H
CH ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	H	H

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	H	H
CH ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	H	H
CH ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	H	H
CH ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	H
CH ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	H	H
CH ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	H	H
CH ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	H	H
CH ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	H	H
CH ₃	O-amino acid	F	O	6-Methylthymine	H	O-amino acid
CH ₃	O-amino acid	F	O	6-Methyluracil	H	O-amino acid
CH ₃	O-amino acid	F	O	8-Methylguanine	H	O-amino acid
CH ₃	O-amino acid	F	O	6-Methylcytosine	H	O-amino acid
CH ₃	O-amino acid	F	O	8-Methyladenine	H	O-amino acid
CH ₃	O-amino acid	F	O	8-Methylhypoxanthine	H	O-amino acid
CH ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	H	O-amino acid
CH ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	H	O-amino acid
CH ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	H	O-amino acid
CH ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	H	O-amino acid
CH ₃	O-amino acid	F	O	2-Amino-8-methyladenine	H	O-amino acid
CH ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	H	O-amino acid
CH ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	H	O-amino acid
CH ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	H	O-amino acid
CH ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	H	O-amino acid
CH ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-amino acid
CH ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-amino acid
CH ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	H	O-amino acid
CH ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	H	O-amino acid
CH ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	H	O-amino acid
CH ₃	O-amino acid	F	O	6-Methylthymine	H	O-acyl
CH ₃	O-amino acid	F	O	6-Methyluracil	H	O-acyl
CH ₃	O-amino acid	F	O	8-Methylguanine	H	O-acyl
CH ₃	O-amino acid	F	O	6-Methylcytosine	H	O-acyl
CH ₃	O-amino acid	F	O	8-Methyladenine	H	O-acyl
CH ₃	O-amino acid	F	O	8-Methylhypoxanthine	H	O-acyl
CH ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	H	O-acyl
CH ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	H	O-acyl
CH ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	H	O-acyl
CH ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	H	O-acyl
CH ₃	O-amino acid	F	O	2-Amino-8-methyladenine	H	O-acyl
CH ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	H	O-acyl
CH ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	H	O-acyl
CH ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	H	O-acyl
CH ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	H	O-acyl
CH ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-acyl
CH ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-acyl
CH ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	H	O-acyl
CH ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	H	O-acyl
CH ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	H	O-acyl
CH ₃	O-amino acid	F	O	6-Methylthymine	H	OH
CH ₃	O-amino acid	F	O	6-Methyluracil	H	OH
CH ₃	O-amino acid	F	O	8-Methylguanine	H	OH
CH ₃	O-amino acid	F	O	6-Methylcytosine	H	OH
CH ₃	O-amino acid	F	O	8-Methyladenine	H	OH
CH ₃	O-amino acid	F	O	8-Methylhypoxanthine	H	OH
CH ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	H	OH
CH ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	H	OH
CH ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	H	OH
CH ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	H	OH
CH ₃	O-amino acid	F	O	2-Amino-8-methyladenine	H	OH
CH ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	H	OH
CH ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	H	OH
CH ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	H	OH
CH ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	H	OH
CH ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	OH
CH ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	H	OH
CH ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	H	OH
CH ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	H	OH
CH ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	H	OH
CH ₃	O-amino acid	F	O	6-Methylthymine	OH	H
CH ₃	O-amino acid	F	O	6-Methyluracil	OH	H
CH ₃	O-amino acid	F	O	8-Methylguanine	OH	H
CH ₃	O-amino acid	F	O	6-Methylcytosine	OH	H
CH ₃	O-amino acid	F	O	8-Methyladenine	OH	H

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-amino acid	F	O	8-Methylhypoxanthine	OH	H
CH ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	OH	H
CH ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	OH	H
CH ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	OH	H
CH ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	OH	H
CH ₃	O-amino acid	F	O	2-Amino-8-methyladenine	OH	H
CH ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	OH	H
CH ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	OH	H
CH ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	OH	H
CH ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	OH	H
CH ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	OH	H
CH ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	OH	H
CH ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	OH	H
CH ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	OH	H
CH ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	OH	H
CH ₃	O-amino acid	Br	O	6-Methylthymine	F	H
CH ₃	O-amino acid	Br	O	6-Methyluracil	F	H
CH ₃	O-amino acid	Br	O	8-Methylguanine	F	H
CH ₃	O-amino acid	Br	O	6-Methylcytosine	F	H
CH ₃	O-amino acid	Br	O	8-Methyladenine	F	H
CH ₃	O-amino acid	Br	O	8-Methylhypoxanthine	F	H
CH ₃	O-amino acid	Br	O	5-Fluoro-6-Methyluracil	F	H
CH ₃	O-amino acid	Br	O	5-Fluoro-6-Methylcytosine	F	H
CH ₃	O-amino acid	Br	O	2-Fluoro-8-methyladenine	F	H
CH ₃	O-amino acid	Br	O	2-Fluoro-8-methylhypoxanthine	F	H
CH ₃	O-amino acid	Br	O	2-Amino-8-methyladenine	F	H
CH ₃	O-amino acid	Br	O	2-Amino-8-methylhypoxanthine	F	H
CH ₃	O-amino acid	Br	O	2-N-acetyl-8-methylguanine	F	H
CH ₃	O-amino acid	Br	O	4-N-acetyl-8-methylcytosine	F	H
CH ₃	O-amino acid	Br	O	6-N-acetyl-8-methyladenine	F	H
CH ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	H
CH ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	F	H
CH ₃	O-amino acid	Br	O	6-N-acetyl-2-amino-8-methyladenine	F	H
CH ₃	O-amino acid	Br	O	2-N-acetylamino-8-methyladenine	F	H
CH ₃	O-amino acid	Br	O	2-N-acetylamino-8-methylhypoxanthine	F	H
CH ₃	O-amino acid	Br	O	6-Methylthymine	F	O-amino acid
CH ₃	O-amino acid	Br	O	6-Methyluracil	F	O-amino acid
CH ₃	O-amino acid	Br	O	8-Methylguanine	F	O-amino acid
CH ₃	O-amino acid	Br	O	6-Methylcytosine	F	O-amino acid
CH ₃	O-amino acid	Br	O	8-Methyladenine	F	O-amino acid
CH ₃	O-amino acid	Br	O	8-Methylhypoxanthine	F	O-amino acid
CH ₃	O-amino acid	Br	O	5-Fluoro-6-Methyluracil	F	O-amino acid
CH ₃	O-amino acid	Br	O	5-Fluoro-6-Methylcytosine	F	O-amino acid
CH ₃	O-amino acid	Br	O	2-Fluoro-8-methyladenine	F	O-amino acid
CH ₃	O-amino acid	Br	O	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CH ₃	O-amino acid	Br	O	2-Amino-8-methyladenine	F	O-amino acid
CH ₃	O-amino acid	Br	O	2-Amino-8-methylhypoxanthine	F	O-amino acid
CH ₃	O-amino acid	Br	O	2-N-acetyl-8-methylguanine	F	O-amino acid
CH ₃	O-amino acid	Br	O	4-N-acetyl-8-methylcytosine	F	O-amino acid
CH ₃	O-amino acid	Br	O	6-N-acetyl-8-methyladenine	F	O-amino acid
CH ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CH ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CH ₃	O-amino acid	Br	O	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CH ₃	O-amino acid	Br	O	2-N-acetylamino-8-methyladenine	F	O-amino acid
CH ₃	O-amino acid	Br	O	2-N-acetylamino-8-methylhypoxanthine	F	O-amino acid
CH ₃	O-amino acid	Br	O	6-Methylthymine	F	O-acyl
CH ₃	O-amino acid	Br	O	6-Methyluracil	F	O-acyl
CH ₃	O-amino acid	Br	O	8-Methylguanine	F	O-acyl
CH ₃	O-amino acid	Br	O	6-Methylcytosine	F	O-acyl
CH ₃	O-amino acid	Br	O	8-Methyladenine	F	O-acyl
CH ₃	O-amino acid	Br	O	8-Methylhypoxanthine	F	O-acyl
CH ₃	O-amino acid	Br	O	5-Fluoro-6-Methyluracil	F	O-acyl
CH ₃	O-amino acid	Br	O	5-Fluoro-6-Methylcytosine	F	O-acyl
CH ₃	O-amino acid	Br	O	2-Fluoro-8-methyladenine	F	O-acyl
CH ₃	O-amino acid	Br	O	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CH ₃	O-amino acid	Br	O	2-Amino-8-methyladenine	F	O-acyl
CH ₃	O-amino acid	Br	O	2-Amino-8-methylhypoxanthine	F	O-acyl
CH ₃	O-amino acid	Br	O	2-N-acetyl-8-methylguanine	F	O-acyl
CH ₃	O-amino acid	Br	O	4-N-acetyl-8-methylcytosine	F	O-acyl
CH ₃	O-amino acid	Br	O	6-N-acetyl-8-methyladenine	F	O-acyl
CH ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CH ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CH ₃	O-amino acid	Br	O	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CH ₃	O-amino acid	Br	O	2-N-acetylamino-8-methyladenine	F	O-acyl
CH ₃	O-amino acid	Br	O	2-N-acetylamino-8-methylhypoxanthine	F	O-acyl

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-amino acid	Br	O	2-N-acetylamino-8-methylhypoxanthine	F	O-acyl
CH ₃	O-amino acid	Br	O	6-Methylthymine	F	OH
CH ₃	O-amino acid	Br	O	6-Methyluracil	F	OH
CH ₃	O-amino acid	Br	O	8-Methylguanine	F	OH
CH ₃	O-amino acid	Br	O	6-Methylcytosine	F	OH
CH ₃	O-amino acid	Br	O	8-Methyladenine	F	OH
CH ₃	O-amino acid	Br	O	8-Methylhypoxanthine	F	OH
CH ₃	O-amino acid	Br	O	5-Fluoro-6-Methyluracil	F	OH
CH ₃	O-amino acid	Br	O	5-Fluoro-6-Methylcytosine	F	OH
CH ₃	O-amino acid	Br	O	2-Fluoro-8-methyladenine	F	OH
CH ₃	O-amino acid	Br	O	2-Fluoro-8-methylhypoxanthine	F	OH
CH ₃	O-amino acid	Br	O	2-Amino-8-methyladenine	F	OH
CH ₃	O-amino acid	Br	O	2-Amino-8-methylhypoxanthine	F	OH
CH ₃	O-amino acid	Br	O	2-N-acetyl-8-methylguanine	F	OH
CH ₃	O-amino acid	Br	O	4-N-acetyl-8-methylcytosine	F	OH
CH ₃	O-amino acid	Br	O	6-N-acetyl-8-methyladenine	F	OH
CH ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	OH
CH ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	F	OH
CH ₃	O-amino acid	Br	O	6-N-acetyl-2-amino-8-methyladenine	F	OH
CH ₃	O-amino acid	Br	O	2-N-acetylamino-8-methyladenine	F	OH
CH ₃	O-amino acid	Br	O	2-N-acetylamino-8-methylhypoxanthine	F	OH
CH ₃	O-amino acid	Br	O	6-Methylthymine	Br	H
CH ₃	O-amino acid	Br	O	6-Methyluracil	Br	H
CH ₃	O-amino acid	Br	O	8-Methylguanine	Br	H
CH ₃	O-amino acid	Br	O	6-Methylcytosine	Br	H
CH ₃	O-amino acid	Br	O	8-Methyladenine	Br	H
CH ₃	O-amino acid	Br	O	8-Methylhypoxanthine	Br	H
CH ₃	O-amino acid	Br	O	5-Fluoro-6-Methyluracil	Br	H
CH ₃	O-amino acid	Br	O	5-Fluoro-6-Methylcytosine	Br	H
CH ₃	O-amino acid	Br	O	2-Fluoro-8-methyladenine	Br	H
CH ₃	O-amino acid	Br	O	2-Fluoro-8-methylhypoxanthine	Br	H
CH ₃	O-amino acid	Br	O	2-Amino-8-methyladenine	Br	H
CH ₃	O-amino acid	Br	O	2-Amino-8-methylhypoxanthine	Br	H
CH ₃	O-amino acid	Br	O	2-N-acetyl-8-methylguanine	Br	H
CH ₃	O-amino acid	Br	O	4-N-acetyl-8-methylcytosine	Br	H
CH ₃	O-amino acid	Br	O	6-N-acetyl-8-methyladenine	Br	H
CH ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	H
CH ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	H
CH ₃	O-amino acid	Br	O	6-N-acetyl-2-amino-8-methyladenine	Br	H
CH ₃	O-amino acid	Br	O	2-N-acetylamino-8-methyladenine	Br	H
CH ₃	O-amino acid	Br	O	2-N-acetylamino-8-methylhypoxanthine	Br	H
CH ₃	O-amino acid	Br	O	6-Methylthymine	Br	O-amino acid
CH ₃	O-amino acid	Br	O	6-Methyluracil	Br	O-amino acid
CH ₃	O-amino acid	Br	O	8-Methylguanine	Br	O-amino acid
CH ₃	O-amino acid	Br	O	6-Methylcytosine	Br	O-amino acid
CH ₃	O-amino acid	Br	O	8-Methyladenine	Br	O-amino acid
CH ₃	O-amino acid	Br	O	8-Methylhypoxanthine	Br	O-amino acid
CH ₃	O-amino acid	Br	O	5-Fluoro-6-Methyluracil	Br	O-amino acid
CH ₃	O-amino acid	Br	O	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CH ₃	O-amino acid	Br	O	2-Fluoro-8-methyladenine	Br	O-amino acid
CH ₃	O-amino acid	Br	O	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CH ₃	O-amino acid	Br	O	2-Amino-8-methyladenine	Br	O-amino acid
CH ₃	O-amino acid	Br	O	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CH ₃	O-amino acid	Br	O	2-N-acetyl-8-methylguanine	Br	O-amino acid
CH ₃	O-amino acid	Br	O	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CH ₃	O-amino acid	Br	O	6-N-acetyl-8-methyladenine	Br	O-amino acid
CH ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CH ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CH ₃	O-amino acid	Br	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CH ₃	O-amino acid	Br	O	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CH ₃	O-amino acid	Br	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-amino acid
CH ₃	O-amino acid	Br	O	6-Methylthymine	Br	O-acyl
CH ₃	O-amino acid	Br	O	6-Methyluracil	Br	O-acyl
CH ₃	O-amino acid	Br	O	8-Methylguanine	Br	O-acyl
CH ₃	O-amino acid	Br	O	6-Methylcytosine	Br	O-acyl
CH ₃	O-amino acid	Br	O	8-Methyladenine	Br	O-acyl
CH ₃	O-amino acid	Br	O	8-Methylhypoxanthine	Br	O-acyl
CH ₃	O-amino acid	Br	O	5-Fluoro-6-Methyluracil	Br	O-acyl
CH ₃	O-amino acid	Br	O	5-Fluoro-6-Methylcytosine	Br	O-acyl
CH ₃	O-amino acid	Br	O	2-Fluoro-8-methyladenine	Br	O-acyl
CH ₃	O-amino acid	Br	O	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CH ₃	O-amino acid	Br	O	2-Amino-8-methyladenine	Br	O-acyl
CH ₃	O-amino acid	Br	O	2-Amino-8-methylhypoxanthine	Br	O-acyl

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-amino acid	Br	O	2-N-acetyl-8-methylguanine	Br	O-acyl
CH ₃	O-amino acid	Br	O	4-N-acetyl-8-methylcytosine	Br	O-acyl
CH ₃	O-amino acid	Br	O	6-N-acetyl-8-methyladenine	Br	O-acyl
CH ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CH ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CH ₃	O-amino acid	Br	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CH ₃	O-amino acid	Br	O	2-N-acetylamino-8-methyladenine	Br	O-acyl
CH ₃	O-amino acid	Br	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-acyl
CH ₃	O-amino acid	Br	O	6-Methylthymine	Br	OH
CH ₃	O-amino acid	Br	O	6-Methyluracil	Br	OH
CH ₃	O-amino acid	Br	O	8-Methylguanine	Br	OH
CH ₃	O-amino acid	Br	O	6-Methylcytosine	Br	OH
CH ₃	O-amino acid	Br	O	8-Methyladenine	Br	OH
CH ₃	O-amino acid	Br	O	8-Methylhypoxanthine	Br	OH
CH ₃	O-amino acid	Br	O	5-Fluoro-6-Methyluracil	Br	OH
CH ₃	O-amino acid	Br	O	5-Fluoro-6-Methylcytosine	Br	OH
CH ₃	O-amino acid	Br	O	2-Fluoro-8-methyladenine	Br	OH
CH ₃	O-amino acid	Br	O	2-Fluoro-8-methylhypoxanthine	Br	OH
CH ₃	O-amino acid	Br	O	2-Amino-8-methyladenine	Br	OH
CH ₃	O-amino acid	Br	O	2-Amino-8-methylhypoxanthine	Br	OH
CH ₃	O-amino acid	Br	O	2-N-acetyl-8-methylguanine	Br	OH
CH ₃	O-amino acid	Br	O	4-N-acetyl-8-methylcytosine	Br	OH
CH ₃	O-amino acid	Br	O	6-N-acetyl-8-methyladenine	Br	OH
CH ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	OH
CH ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	OH
CH ₃	O-amino acid	Br	O	6-N-acetyl-2-amino-8-methyladenine	Br	OH
CH ₃	O-amino acid	Br	O	2-N-acetylamino-8-methyladenine	Br	OH
CH ₃	O-amino acid	Br	O	2-N-acetylamino-8-methylhypoxanthine	Br	OH
CH ₃	O-amino acid	Br	O	6-Methylthymine	Cl	H
CH ₃	O-amino acid	Br	O	6-Methyluracil	Cl	H
CH ₃	O-amino acid	Br	O	8-Methylguanine	Cl	H
CH ₃	O-amino acid	Br	O	6-Methylcytosine	Cl	H
CH ₃	O-amino acid	Br	O	8-Methyladenine	Cl	H
CH ₃	O-amino acid	Br	O	8-Methylhypoxanthine	Cl	H
CH ₃	O-amino acid	Br	O	5-Fluoro-6-Methyluracil	Cl	H
CH ₃	O-amino acid	Br	O	5-Fluoro-6-Methylcytosine	Cl	H
CH ₃	O-amino acid	Br	O	2-Fluoro-8-methyladenine	Cl	H
CH ₃	O-amino acid	Br	O	2-Fluoro-8-methylhypoxanthine	Cl	H
CH ₃	O-amino acid	Br	O	2-Amino-8-methyladenine	Cl	H
CH ₃	O-amino acid	Br	O	2-Amino-8-methylhypoxanthine	Cl	H
CH ₃	O-amino acid	Br	O	2-N-acetyl-8-methylguanine	Cl	H
CH ₃	O-amino acid	Br	O	4-N-acetyl-8-methylcytosine	Cl	H
CH ₃	O-amino acid	Br	O	6-N-acetyl-8-methyladenine	Cl	H
CH ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	H
CH ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	H
CH ₃	O-amino acid	Br	O	6-N-acetyl-2-amino-8-methyladenine	Cl	H
CH ₃	O-amino acid	Br	O	2-N-acetylamino-8-methyladenine	Cl	H
CH ₃	O-amino acid	Br	O	2-N-acetylamino-8-methylhypoxanthine	Cl	H
CH ₃	O-amino acid	Br	O	6-Methylthymine	Cl	O-amino acid
CH ₃	O-amino acid	Br	O	6-Methyluracil	Cl	O-amino acid
CH ₃	O-amino acid	Br	O	8-Methylguanine	Cl	O-amino acid
CH ₃	O-amino acid	Br	O	6-Methylcytosine	Cl	O-amino acid
CH ₃	O-amino acid	Br	O	8-Methyladenine	Cl	O-amino acid
CH ₃	O-amino acid	Br	O	8-Methylhypoxanthine	Cl	O-amino acid
CH ₃	O-amino acid	Br	O	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CH ₃	O-amino acid	Br	O	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CH ₃	O-amino acid	Br	O	2-Fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	O-amino acid	Br	O	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	O-amino acid	Br	O	2-Amino-8-methyladenine	Cl	O-amino acid
CH ₃	O-amino acid	Br	O	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	O-amino acid	Br	O	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CH ₃	O-amino acid	Br	O	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CH ₃	O-amino acid	Br	O	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CH ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CH ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	O-amino acid	Br	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CH ₃	O-amino acid	Br	O	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CH ₃	O-amino acid	Br	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	O-amino acid	Br	O	6-Methylthymine	Cl	O-acyl
CH ₃	O-amino acid	Br	O	6-Methyluracil	Cl	O-acyl
CH ₃	O-amino acid	Br	O	8-Methylguanine	Cl	O-acyl
CH ₃	O-amino acid	Br	O	6-Methylcytosine	Cl	O-acyl
CH ₃	O-amino acid	Br	O	8-Methyladenine	Cl	O-acyl

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-amino acid	Br	O	8-Methylhypoxanthine	Cl	O-acyl
CH ₃	O-amino acid	Br	O	5-Fluoro-6-Methyluracil	Cl	O-acyl
CH ₃	O-amino acid	Br	O	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CH ₃	O-amino acid	Br	O	2-Fluoro-8-methyladenine	Cl	O-acyl
CH ₃	O-amino acid	Br	O	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CH ₃	O-amino acid	Br	O	2-Amino-8-methyladenine	Cl	O-acyl
CH ₃	O-amino acid	Br	O	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CH ₃	O-amino acid	Br	O	2-N-acetyl-8-methylguanine	Cl	O-acyl
CH ₃	O-amino acid	Br	O	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CH ₃	O-amino acid	Br	O	6-N-acetyl-8-methyladenine	Cl	O-acyl
CH ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CH ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CH ₃	O-amino acid	Br	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CH ₃	O-amino acid	Br	O	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CH ₃	O-amino acid	Br	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-acyl
CH ₃	O-amino acid	Br	O	6-Methylthymine	Cl	OH
CH ₃	O-amino acid	Br	O	6-Methyluracil	Cl	OH
CH ₃	O-amino acid	Br	O	8-Methylguanine	Cl	OH
CH ₃	O-amino acid	Br	O	6-Methylcytosine	Cl	OH
CH ₃	O-amino acid	Br	O	8-Methyladenine	Cl	OH
CH ₃	O-amino acid	Br	O	8-Methylhypoxanthine	Cl	OH
CH ₃	O-amino acid	Br	O	5-Fluoro-6-Methyluracil	Cl	OH
CH ₃	O-amino acid	Br	O	5-Fluoro-6-Methylcytosine	Cl	OH
CH ₃	O-amino acid	Br	O	2-Fluoro-8-methyladenine	Cl	OH
CH ₃	O-amino acid	Br	O	2-Fluoro-8-methylhypoxanthine	Cl	OH
CH ₃	O-amino acid	Br	O	2-Amino-8-methyladenine	Cl	OH
CH ₃	O-amino acid	Br	O	2-Amino-8-methylhypoxanthine	Cl	OH
CH ₃	O-amino acid	Br	O	2-N-acetyl-8-methylguanine	Cl	OH
CH ₃	O-amino acid	Br	O	4-N-acetyl-8-methylcytosine	Cl	OH
CH ₃	O-amino acid	Br	O	6-N-acetyl-8-methyladenine	Cl	OH
CH ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	OH
CH ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	OH
CH ₃	O-amino acid	Br	O	6-N-acetyl-2-amino-8-methyladenine	Cl	OH
CH ₃	O-amino acid	Br	O	2-N-acetylamino-8-methyladenine	Cl	OH
CH ₃	O-amino acid	Br	O	2-N-acetylamino-8-methylhypoxanthine	Cl	OH
CH ₃	O-amino acid	Br	O	6-Methylthymine	H	H
CH ₃	O-amino acid	Br	O	6-Methyluracil	H	H
CH ₃	O-amino acid	Br	O	8-Methylguanine	H	H
CH ₃	O-amino acid	Br	O	6-Methylcytosine	H	H
CH ₃	O-amino acid	Br	O	8-Methyladenine	H	H
CH ₃	O-amino acid	Br	O	8-Methylhypoxanthine	H	H
CH ₃	O-amino acid	Br	O	5-Fluoro-6-Methyluracil	H	H
CH ₃	O-amino acid	Br	O	5-Fluoro-6-Methylcytosine	H	H
CH ₃	O-amino acid	Br	O	2-Fluoro-8-methyladenine	H	H
CH ₃	O-amino acid	Br	O	2-Fluoro-8-methylhypoxanthine	H	H
CH ₃	O-amino acid	Br	O	2-Amino-8-methyladenine	H	H
CH ₃	O-amino acid	Br	O	2-Amino-8-methylhypoxanthine	H	H
CH ₃	O-amino acid	Br	O	2-N-acetyl-8-methylguanine	H	H
CH ₃	O-amino acid	Br	O	4-N-acetyl-8-methylcytosine	H	H
CH ₃	O-amino acid	Br	O	6-N-acetyl-8-methyladenine	H	H
CH ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	H
CH ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	H	H
CH ₃	O-amino acid	Br	O	6-N-acetyl-2-amino-8-methyladenine	H	H
CH ₃	O-amino acid	Br	O	2-N-acetylamino-8-methyladenine	H	H
CH ₃	O-amino acid	Br	O	2-N-acetylamino-8-methylhypoxanthine	H	H
CH ₃	O-amino acid	Br	O	6-Methylthymine	H	O-amino acid
CH ₃	O-amino acid	Br	O	6-Methyluracil	H	O-amino acid
CH ₃	O-amino acid	Br	O	8-Methylguanine	H	O-amino acid
CH ₃	O-amino acid	Br	O	6-Methylcytosine	H	O-amino acid
CH ₃	O-amino acid	Br	O	8-Methyladenine	H	O-amino acid
CH ₃	O-amino acid	Br	O	8-Methylhypoxanthine	H	O-amino acid
CH ₃	O-amino acid	Br	O	5-Fluoro-6-Methyluracil	H	O-amino acid
CH ₃	O-amino acid	Br	O	5-Fluoro-6-Methylcytosine	H	O-amino acid
CH ₃	O-amino acid	Br	O	2-Fluoro-8-methyladenine	H	O-amino acid
CH ₃	O-amino acid	Br	O	2-Fluoro-8-methylhypoxanthine	H	O-amino acid
CH ₃	O-amino acid	Br	O	2-Amino-8-methyladenine	H	O-amino acid
CH ₃	O-amino acid	Br	O	2-Amino-8-methylhypoxanthine	H	O-amino acid
CH ₃	O-amino acid	Br	O	2-N-acetyl-8-methylguanine	H	O-amino acid
CH ₃	O-amino acid	Br	O	4-N-acetyl-8-methylcytosine	H	O-amino acid
CH ₃	O-amino acid	Br	O	6-N-acetyl-8-methyladenine	H	O-amino acid
CH ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-amino acid
CH ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-amino acid
CH ₃	O-amino acid	Br	O	6-N-acetyl-2-amino-8-methyladenine	H	O-amino acid
CH ₃	O-amino acid	Br	O	2-N-acetylamino-8-methyladenine	H	O-amino acid
CH ₃	O-amino acid	Br	O	2-N-acetylamino-8-methylhypoxanthine	H	O-amino acid

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-amino acid	Br	O	2-N-acetylamino-8-methylhypoxanthine	H	O-amino acid
CH ₃	O-amino acid	Br	O	6-Methylthymine	H	O-acyl
CH ₃	O-amino acid	Br	O	6-Methyluracil	H	O-acyl
CH ₃	O-amino acid	Br	O	8-Methylguanine	H	O-acyl
CH ₃	O-amino acid	Br	O	6-Methylcytosine	H	O-acyl
CH ₃	O-amino acid	Br	O	8-Methyladenine	H	O-acyl
CH ₃	O-amino acid	Br	O	8-Methylhypoxanthine	H	O-acyl
CH ₃	O-amino acid	Br	O	5-Fluoro-6-Methyluracil	H	O-acyl
CH ₃	O-amino acid	Br	O	5-Fluoro-6-Methylcytosine	H	O-acyl
CH ₃	O-amino acid	Br	O	2-Fluoro-8-methyladenine	H	O-acyl
CH ₃	O-amino acid	Br	O	2-Fluoro-8-methylhypoxanthine	H	O-acyl
CH ₃	O-amino acid	Br	O	2-Amino-8-methyladenine	H	O-acyl
CH ₃	O-amino acid	Br	O	2-Amino-8-methylhypoxanthine	H	O-acyl
CH ₃	O-amino acid	Br	O	2-N-acetyl-8-methylguanine	H	O-acyl
CH ₃	O-amino acid	Br	O	4-N-acetyl-8-methylcytosine	H	O-acyl
CH ₃	O-amino acid	Br	O	6-N-acetyl-8-methyladenine	H	O-acyl
CH ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-acyl
CH ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-acyl
CH ₃	O-amino acid	Br	O	6-N-acetyl-2-amino-8-methyladenine	H	O-acyl
CH ₃	O-amino acid	Br	O	2-N-acetylamino-8-methyladenine	H	O-acyl
CH ₃	O-amino acid	Br	O	2-N-acetylamino-8-methylhypoxanthine	H	O-acyl
CH ₃	O-amino acid	Br	O	6-Methylthymine	H	OH
CH ₃	O-amino acid	Br	O	6-Methyluracil	H	OH
CH ₃	O-amino acid	Br	O	8-Methylguanine	H	OH
CH ₃	O-amino acid	Br	O	6-Methylcytosine	H	OH
CH ₃	O-amino acid	Br	O	8-Methyladenine	H	OH
CH ₃	O-amino acid	Br	O	8-Methylhypoxanthine	H	OH
CH ₃	O-amino acid	Br	O	5-Fluoro-6-Methyluracil	H	OH
CH ₃	O-amino acid	Br	O	5-Fluoro-6-Methylcytosine	H	OH
CH ₃	O-amino acid	Br	O	2-Fluoro-8-methyladenine	H	OH
CH ₃	O-amino acid	Br	O	2-Fluoro-8-methylhypoxanthine	H	OH
CH ₃	O-amino acid	Br	O	2-Amino-8-methyladenine	H	OH
CH ₃	O-amino acid	Br	O	2-Amino-8-methylhypoxanthine	H	OH
CH ₃	O-amino acid	Br	O	2-N-acetyl-8-methylguanine	H	OH
CH ₃	O-amino acid	Br	O	4-N-acetyl-8-methylcytosine	H	OH
CH ₃	O-amino acid	Br	O	6-N-acetyl-8-methyladenine	H	OH
CH ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	OH
CH ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	H	OH
CH ₃	O-amino acid	Br	O	6-N-acetyl-2-amino-8-methyladenine	H	OH
CH ₃	O-amino acid	Br	O	2-N-acetylamino-8-methyladenine	H	OH
CH ₃	O-amino acid	Br	O	2-N-acetylamino-8-methylhypoxanthine	H	OH
CH ₃	O-amino acid	Br	O	6-Methylthymine	OH	H
CH ₃	O-amino acid	Br	O	6-Methyluracil	OH	H
CH ₃	O-amino acid	Br	O	8-Methylguanine	OH	H
CH ₃	O-amino acid	Br	O	6-Methylcytosine	OH	H
CH ₃	O-amino acid	Br	O	8-Methyladenine	OH	H
CH ₃	O-amino acid	Br	O	8-Methylhypoxanthine	OH	H
CH ₃	O-amino acid	Br	O	5-Fluoro-6-Methyluracil	OH	H
CH ₃	O-amino acid	Br	O	5-Fluoro-6-Methylcytosine	OH	H
CH ₃	O-amino acid	Br	O	2-Fluoro-8-methyladenine	OH	H
CH ₃	O-amino acid	Br	O	2-Fluoro-8-methylhypoxanthine	OH	H
CH ₃	O-amino acid	Br	O	2-Amino-8-methyladenine	OH	H
CH ₃	O-amino acid	Br	O	2-Amino-8-methylhypoxanthine	OH	H
CH ₃	O-amino acid	Br	O	2-N-acetyl-8-methylguanine	OH	H
CH ₃	O-amino acid	Br	O	4-N-acetyl-8-methylcytosine	OH	H
CH ₃	O-amino acid	Br	O	6-N-acetyl-8-methyladenine	OH	H
CH ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	OH	H
CH ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	OH	H
CH ₃	O-amino acid	Br	O	6-N-acetyl-2-amino-8-methyladenine	OH	H
CH ₃	O-amino acid	Br	O	2-N-acetylamino-8-methyladenine	OH	H
CH ₃	O-amino acid	Br	O	2-N-acetylamino-8-methylhypoxanthine	OH	H
CH ₃	O-amino acid	Cl	O	6-Methylthymine	F	H
CH ₃	O-amino acid	Cl	O	6-Methyluracil	F	H
CH ₃	O-amino acid	Cl	O	8-Methylguanine	F	H
CH ₃	O-amino acid	Cl	O	6-Methylcytosine	F	H
CH ₃	O-amino acid	Cl	O	8-Methyladenine	F	H
CH ₃	O-amino acid	Cl	O	8-Methylhypoxanthine	F	H
CH ₃	O-amino acid	Cl	O	5-Fluoro-6-Methyluracil	F	H
CH ₃	O-amino acid	Cl	O	5-Fluoro-6-Methylcytosine	F	H
CH ₃	O-amino acid	Cl	O	2-Fluoro-8-methyladenine	F	H
CH ₃	O-amino acid	Cl	O	2-Fluoro-8-methylhypoxanthine	F	H
CH ₃	O-amino acid	Cl	O	2-Amino-8-methyladenine	F	H
CH ₃	O-amino acid	Cl	O	2-Amino-8-methylhypoxanthine	F	H

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-amino acid	Cl	O	2-N-acetyl-8-methylguanine	F	H
CH ₃	O-amino acid	Cl	O	4-N-acetyl-8-methylcytosine	F	H
CH ₃	O-amino acid	Cl	O	6-N-acetyl-8-methyladenine	F	H
CH ₃	O-amino acid	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	H
CH ₃	O-amino acid	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	F	H
CH ₃	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-methyladenine	F	H
CH ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methyladenine	F	H
CH ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methylhypoxanthine	F	H
CH ₃	O-amino acid	Cl	O	6-Methylthymine	F	O-amino acid
CH ₃	O-amino acid	Cl	O	6-Methyluracil	F	O-amino acid
CH ₃	O-amino acid	Cl	O	8-Methylguanine	F	O-amino acid
CH ₃	O-amino acid	Cl	O	6-Methylcytosine	F	O-amino acid
CH ₃	O-amino acid	Cl	O	8-Methyladenine	F	O-amino acid
CH ₃	O-amino acid	Cl	O	8-Methylhypoxanthine	F	O-amino acid
CH ₃	O-amino acid	Cl	O	5-Fluoro-6-Methyluracil	F	O-amino acid
CH ₃	O-amino acid	Cl	O	5-Fluoro-6-Methylcytosine	F	O-amino acid
CH ₃	O-amino acid	Cl	O	2-Fluoro-8-methyladenine	F	O-amino acid
CH ₃	O-amino acid	Cl	O	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CH ₃	O-amino acid	Cl	O	2-Amino-8-methyladenine	F	O-amino acid
CH ₃	O-amino acid	Cl	O	2-Amino-8-methylhypoxanthine	F	O-amino acid
CH ₃	O-amino acid	Cl	O	2-N-acetyl-8-methylguanine	F	O-amino acid
CH ₃	O-amino acid	Cl	O	4-N-acetyl-8-methylcytosine	F	O-amino acid
CH ₃	O-amino acid	Cl	O	6-N-acetyl-8-methyladenine	F	O-amino acid
CH ₃	O-amino acid	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CH ₃	O-amino acid	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CH ₃	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CH ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methyladenine	F	O-amino acid
CH ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methylhypoxanthine	F	O-amino acid
CH ₃	O-amino acid	Cl	O	6-Methylthymine	F	O-acyl
CH ₃	O-amino acid	Cl	O	6-Methyluracil	F	O-acyl
CH ₃	O-amino acid	Cl	O	8-Methylguanine	F	O-acyl
CH ₃	O-amino acid	Cl	O	6-Methylcytosine	F	O-acyl
CH ₃	O-amino acid	Cl	O	8-Methyladenine	F	O-acyl
CH ₃	O-amino acid	Cl	O	8-Methylhypoxanthine	F	O-acyl
CH ₃	O-amino acid	Cl	O	5-Fluoro-6-Methyluracil	F	O-acyl
CH ₃	O-amino acid	Cl	O	5-Fluoro-6-Methylcytosine	F	O-acyl
CH ₃	O-amino acid	Cl	O	2-Fluoro-8-methyladenine	F	O-acyl
CH ₃	O-amino acid	Cl	O	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CH ₃	O-amino acid	Cl	O	2-Amino-8-methyladenine	F	O-acyl
CH ₃	O-amino acid	Cl	O	2-Amino-8-methylhypoxanthine	F	O-acyl
CH ₃	O-amino acid	Cl	O	2-N-acetyl-8-methylguanine	F	O-acyl
CH ₃	O-amino acid	Cl	O	4-N-acetyl-8-methylcytosine	F	O-acyl
CH ₃	O-amino acid	Cl	O	6-N-acetyl-8-methyladenine	F	O-acyl
CH ₃	O-amino acid	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CH ₃	O-amino acid	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CH ₃	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CH ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methyladenine	F	O-acyl
CH ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methylhypoxanthine	F	O-acyl
CH ₃	O-amino acid	Cl	O	6-Methylthymine	F	OH
CH ₃	O-amino acid	Cl	O	6-Methyluracil	F	OH
CH ₃	O-amino acid	Cl	O	8-Methylguanine	F	OH
CH ₃	O-amino acid	Cl	O	6-Methylcytosine	F	OH
CH ₃	O-amino acid	Cl	O	8-Methyladenine	F	OH
CH ₃	O-amino acid	Cl	O	8-Methylhypoxanthine	F	OH
CH ₃	O-amino acid	Cl	O	5-Fluoro-6-Methyluracil	F	OH
CH ₃	O-amino acid	Cl	O	5-Fluoro-6-Methylcytosine	F	OH
CH ₃	O-amino acid	Cl	O	2-Fluoro-8-methyladenine	F	OH
CH ₃	O-amino acid	Cl	O	2-Fluoro-8-methylhypoxanthine	F	OH
CH ₃	O-amino acid	Cl	O	2-Amino-8-methyladenine	F	OH
CH ₃	O-amino acid	Cl	O	2-Amino-8-methylhypoxanthine	F	OH
CH ₃	O-amino acid	Cl	O	2-N-acetyl-8-methylguanine	F	OH
CH ₃	O-amino acid	Cl	O	4-N-acetyl-8-methylcytosine	F	OH
CH ₃	O-amino acid	Cl	O	6-N-acetyl-8-methyladenine	F	OH
CH ₃	O-amino acid	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	OH
CH ₃	O-amino acid	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	F	OH
CH ₃	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-methyladenine	F	OH
CH ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methyladenine	F	OH
CH ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methylhypoxanthine	F	OH
CH ₃	O-amino acid	Cl	O	6-Methylthymine	Br	H
CH ₃	O-amino acid	Cl	O	6-Methyluracil	Br	H
CH ₃	O-amino acid	Cl	O	8-Methylguanine	Br	H
CH ₃	O-amino acid	Cl	O	6-Methylcytosine	Br	H
CH ₃	O-amino acid	Cl	O	8-Methyladenine	Br	H

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-amino acid	Cl	O	8-Methylhypoxanthine	Br	H
CH ₃	O-amino acid	Cl	O	5-Fluoro-6-Methyluracil	Br	H
CH ₃	O-amino acid	Cl	O	5-Fluoro-6-Methylcytosine	Br	H
CH ₃	O-amino acid	Cl	O	2-Fluoro-8-methyladenine	Br	H
CH ₃	O-amino acid	Cl	O	2-Fluoro-8-methylhypoxanthine	Br	H
CH ₃	O-amino acid	Cl	O	2-Amino-8-methyladenine	Br	H
CH ₃	O-amino acid	Cl	O	2-Amino-8-methylhypoxanthine	Br	H
CH ₃	O-amino acid	Cl	O	2-N-acetyl-8-methylguanine	Br	H
CH ₃	O-amino acid	Cl	O	4-N-acetyl-8-methylcytosine	Br	H
CH ₃	O-amino acid	Cl	O	6-N-acetyl-8-methyladenine	Br	H
CH ₃	O-amino acid	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	H
CH ₃	O-amino acid	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	H
CH ₃	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Br	H
CH ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methyladenine	Br	H
CH ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Br	H
CH ₃	O-amino acid	Cl	O	6-Methylthymine	Br	O-amino acid
CH ₃	O-amino acid	Cl	O	6-Methyluracil	Br	O-amino acid
CH ₃	O-amino acid	Cl	O	8-Methylguanine	Br	O-amino acid
CH ₃	O-amino acid	Cl	O	6-Methylcytosine	Br	O-amino acid
CH ₃	O-amino acid	Cl	O	8-Methyladenine	Br	O-amino acid
CH ₃	O-amino acid	Cl	O	8-Methylhypoxanthine	Br	O-amino acid
CH ₃	O-amino acid	Cl	O	5-Fluoro-6-Methyluracil	Br	O-amino acid
CH ₃	O-amino acid	Cl	O	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CH ₃	O-amino acid	Cl	O	2-Fluoro-8-methyladenine	Br	O-amino acid
CH ₃	O-amino acid	Cl	O	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CH ₃	O-amino acid	Cl	O	2-Amino-8-methyladenine	Br	O-amino acid
CH ₃	O-amino acid	Cl	O	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CH ₃	O-amino acid	Cl	O	2-N-acetyl-8-methylguanine	Br	O-amino acid
CH ₃	O-amino acid	Cl	O	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CH ₃	O-amino acid	Cl	O	6-N-acetyl-8-methyladenine	Br	O-amino acid
CH ₃	O-amino acid	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CH ₃	O-amino acid	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CH ₃	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CH ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CH ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-amino acid
CH ₃	O-amino acid	Cl	O	6-Methylthymine	Br	O-acyl
CH ₃	O-amino acid	Cl	O	6-Methyluracil	Br	O-acyl
CH ₃	O-amino acid	Cl	O	8-Methylguanine	Br	O-acyl
CH ₃	O-amino acid	Cl	O	6-Methylcytosine	Br	O-acyl
CH ₃	O-amino acid	Cl	O	8-Methyladenine	Br	O-acyl
CH ₃	O-amino acid	Cl	O	8-Methylhypoxanthine	Br	O-acyl
CH ₃	O-amino acid	Cl	O	5-Fluoro-6-Methyluracil	Br	O-acyl
CH ₃	O-amino acid	Cl	O	5-Fluoro-6-Methylcytosine	Br	O-acyl
CH ₃	O-amino acid	Cl	O	2-Fluoro-8-methyladenine	Br	O-acyl
CH ₃	O-amino acid	Cl	O	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CH ₃	O-amino acid	Cl	O	2-Amino-8-methyladenine	Br	O-acyl
CH ₃	O-amino acid	Cl	O	2-Amino-8-methylhypoxanthine	Br	O-acyl
CH ₃	O-amino acid	Cl	O	2-N-acetyl-8-methylguanine	Br	O-acyl
CH ₃	O-amino acid	Cl	O	4-N-acetyl-8-methylcytosine	Br	O-acyl
CH ₃	O-amino acid	Cl	O	6-N-acetyl-8-methyladenine	Br	O-acyl
CH ₃	O-amino acid	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CH ₃	O-amino acid	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CH ₃	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CH ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methyladenine	Br	O-acyl
CH ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-acyl
CH ₃	O-amino acid	Cl	O	6-Methylthymine	Br	OH
CH ₃	O-amino acid	Cl	O	6-Methyluracil	Br	OH
CH ₃	O-amino acid	Cl	O	8-Methylguanine	Br	OH
CH ₃	O-amino acid	Cl	O	6-Methylcytosine	Br	OH
CH ₃	O-amino acid	Cl	O	8-Methyladenine	Br	OH
CH ₃	O-amino acid	Cl	O	8-Methylhypoxanthine	Br	OH
CH ₃	O-amino acid	Cl	O	5-Fluoro-6-Methyluracil	Br	OH
CH ₃	O-amino acid	Cl	O	5-Fluoro-6-Methylcytosine	Br	OH
CH ₃	O-amino acid	Cl	O	2-Fluoro-8-methyladenine	Br	OH
CH ₃	O-amino acid	Cl	O	2-Fluoro-8-methylhypoxanthine	Br	OH
CH ₃	O-amino acid	Cl	O	2-Amino-8-methyladenine	Br	OH
CH ₃	O-amino acid	Cl	O	2-Amino-8-methylhypoxanthine	Br	OH
CH ₃	O-amino acid	Cl	O	2-N-acetyl-8-methylguanine	Br	OH
CH ₃	O-amino acid	Cl	O	4-N-acetyl-8-methylcytosine	Br	OH
CH ₃	O-amino acid	Cl	O	6-N-acetyl-8-methyladenine	Br	OH
CH ₃	O-amino acid	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	OH
CH ₃	O-amino acid	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	OH
CH ₃	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Br	OH
CH ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methyladenine	Br	OH

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Br	OH
CH ₃	O-amino acid	Cl	O	6-Methylthymine	Cl	H
CH ₃	O-amino acid	Cl	O	6-Methyluracil	Cl	H
CH ₃	O-amino acid	Cl	O	8-Methylguanine	Cl	H
CH ₃	O-amino acid	Cl	O	6-Methylcytosine	Cl	H
CH ₃	O-amino acid	Cl	O	8-Methyladenine	Cl	H
CH ₃	O-amino acid	Cl	O	8-Methylhypoxanthine	Cl	H
CH ₃	O-amino acid	Cl	O	5-Fluoro-6-Methyluracil	Cl	H
CH ₃	O-amino acid	Cl	O	5-Fluoro-6-Methylcytosine	Cl	H
CH ₃	O-amino acid	Cl	O	2-Fluoro-8-methyladenine	Cl	H
CH ₃	O-amino acid	Cl	O	2-Fluoro-8-methylhypoxanthine	Cl	H
CH ₃	O-amino acid	Cl	O	2-Amino-8-methyladenine	Cl	H
CH ₃	O-amino acid	Cl	O	2-Amino-8-methylhypoxanthine	Cl	H
CH ₃	O-amino acid	Cl	O	2-N-acetyl-8-methylguanine	Cl	H
CH ₃	O-amino acid	Cl	O	4-N-acetyl-8-methylcytosine	Cl	H
CH ₃	O-amino acid	Cl	O	6-N-acetyl-8-methyladenine	Cl	H
CH ₃	O-amino acid	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	H
CH ₃	O-amino acid	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	H
CH ₃	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Cl	H
CH ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methyladenine	Cl	H
CH ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Cl	H
CH ₃	O-amino acid	Cl	O	6-Methylthymine	Cl	O-amino acid
CH ₃	O-amino acid	Cl	O	6-Methyluracil	Cl	O-amino acid
CH ₃	O-amino acid	Cl	O	8-Methylguanine	Cl	O-amino acid
CH ₃	O-amino acid	Cl	O	6-Methylcytosine	Cl	O-amino acid
CH ₃	O-amino acid	Cl	O	8-Methyladenine	Cl	O-amino acid
CH ₃	O-amino acid	Cl	O	8-Methylhypoxanthine	Cl	O-amino acid
CH ₃	O-amino acid	Cl	O	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CH ₃	O-amino acid	Cl	O	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CH ₃	O-amino acid	Cl	O	2-Fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	O-amino acid	Cl	O	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	O-amino acid	Cl	O	2-Amino-8-methyladenine	Cl	O-amino acid
CH ₃	O-amino acid	Cl	O	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	O-amino acid	Cl	O	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CH ₃	O-amino acid	Cl	O	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CH ₃	O-amino acid	Cl	O	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CH ₃	O-amino acid	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CH ₃	O-amino acid	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CH ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CH ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	O-amino acid	Cl	O	6-Methylthymine	Cl	O-acyl
CH ₃	O-amino acid	Cl	O	6-Methyluracil	Cl	O-acyl
CH ₃	O-amino acid	Cl	O	8-Methylguanine	Cl	O-acyl
CH ₃	O-amino acid	Cl	O	6-Methylcytosine	Cl	O-acyl
CH ₃	O-amino acid	Cl	O	8-Methyladenine	Cl	O-acyl
CH ₃	O-amino acid	Cl	O	8-Methylhypoxanthine	Cl	O-acyl
CH ₃	O-amino acid	Cl	O	5-Fluoro-6-Methyluracil	Cl	O-acyl
CH ₃	O-amino acid	Cl	O	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CH ₃	O-amino acid	Cl	O	2-Fluoro-8-methyladenine	Cl	O-acyl
CH ₃	O-amino acid	Cl	O	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CH ₃	O-amino acid	Cl	O	2-Amino-8-methyladenine	Cl	O-acyl
CH ₃	O-amino acid	Cl	O	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CH ₃	O-amino acid	Cl	O	2-N-acetyl-8-methylguanine	Cl	O-acyl
CH ₃	O-amino acid	Cl	O	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CH ₃	O-amino acid	Cl	O	6-N-acetyl-8-methyladenine	Cl	O-acyl
CH ₃	O-amino acid	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CH ₃	O-amino acid	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CH ₃	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CH ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CH ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-acyl
CH ₃	O-amino acid	Cl	O	6-Methylthymine	Cl	OH
CH ₃	O-amino acid	Cl	O	6-Methyluracil	Cl	OH
CH ₃	O-amino acid	Cl	O	8-Methylguanine	Cl	OH
CH ₃	O-amino acid	Cl	O	6-Methylcytosine	Cl	OH
CH ₃	O-amino acid	Cl	O	8-Methyladenine	Cl	OH
CH ₃	O-amino acid	Cl	O	8-Methylhypoxanthine	Cl	OH
CH ₃	O-amino acid	Cl	O	5-Fluoro-6-Methyluracil	Cl	OH
CH ₃	O-amino acid	Cl	O	5-Fluoro-6-Methylcytosine	Cl	OH
CH ₃	O-amino acid	Cl	O	2-Fluoro-8-methyladenine	Cl	OH
CH ₃	O-amino acid	Cl	O	2-Fluoro-8-methylhypoxanthine	Cl	OH
CH ₃	O-amino acid	Cl	O	2-Amino-8-methyladenine	Cl	OH
CH ₃	O-amino acid	Cl	O	2-Amino-8-methylhypoxanthine	Cl	OH

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-amino acid	Cl	O	2-N-acetyl-8-methylguanine	Cl	OH
CH ₃	O-amino acid	Cl	O	4-N-acetyl-8-methylcytosine	Cl	OH
CH ₃	O-amino acid	Cl	O	6-N-acetyl-8-methyladenine	Cl	OH
CH ₃	O-amino acid	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	OH
CH ₃	O-amino acid	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	OH
CH ₃	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Cl	OH
CH ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methyladenine	Cl	OH
CH ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Cl	OH
CH ₃	O-amino acid	Cl	O	6-Methylthymine	H	H
CH ₃	O-amino acid	Cl	O	6-Methyluracil	H	H
CH ₃	O-amino acid	Cl	O	8-Methylguanine	H	H
CH ₃	O-amino acid	Cl	O	6-Methylcytosine	H	H
CH ₃	O-amino acid	Cl	O	8-Methyladenine	H	H
CH ₃	O-amino acid	Cl	O	8-Methylhypoxanthine	H	H
CH ₃	O-amino acid	Cl	O	5-Fluoro-6-Methyluracil	H	H
CH ₃	O-amino acid	Cl	O	5-Fluoro-6-Methylcytosine	H	H
CH ₃	O-amino acid	Cl	O	2-Fluoro-8-methyladenine	H	H
CH ₃	O-amino acid	Cl	O	2-Fluoro-8-methylhypoxanthine	H	H
CH ₃	O-amino acid	Cl	O	2-Amino-8-methyladenine	H	H
CH ₃	O-amino acid	Cl	O	2-Amino-8-methylhypoxanthine	H	H
CH ₃	O-amino acid	Cl	O	2-N-acetyl-8-methylguanine	H	H
CH ₃	O-amino acid	Cl	O	4-N-acetyl-8-methylcytosine	H	H
CH ₃	O-amino acid	Cl	O	6-N-acetyl-8-methyladenine	H	H
CH ₃	O-amino acid	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	H
CH ₃	O-amino acid	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	H	H
CH ₃	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-methyladenine	H	H
CH ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methyladenine	H	H
CH ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methylhypoxanthine	H	H
CH ₃	O-amino acid	Cl	O	6-Methylthymine	H	O-amino acid
CH ₃	O-amino acid	Cl	O	6-Methyluracil	H	O-amino acid
CH ₃	O-amino acid	Cl	O	8-Methylguanine	H	O-amino acid
CH ₃	O-amino acid	Cl	O	6-Methylcytosine	H	O-amino acid
CH ₃	O-amino acid	Cl	O	8-Methyladenine	H	O-amino acid
CH ₃	O-amino acid	Cl	O	8-Methylhypoxanthine	H	O-amino acid
CH ₃	O-amino acid	Cl	O	5-Fluoro-6-Methyluracil	H	O-amino acid
CH ₃	O-amino acid	Cl	O	5-Fluoro-6-Methylcytosine	H	O-amino acid
CH ₃	O-amino acid	Cl	O	2-Fluoro-8-methyladenine	H	O-amino acid
CH ₃	O-amino acid	Cl	O	2-Fluoro-8-methylhypoxanthine	H	O-amino acid
CH ₃	O-amino acid	Cl	O	2-Amino-8-methyladenine	H	O-amino acid
CH ₃	O-amino acid	Cl	O	2-Amino-8-methylhypoxanthine	H	O-amino acid
CH ₃	O-amino acid	Cl	O	2-N-acetyl-8-methylguanine	H	O-amino acid
CH ₃	O-amino acid	Cl	O	4-N-acetyl-8-methylcytosine	H	O-amino acid
CH ₃	O-amino acid	Cl	O	6-N-acetyl-8-methyladenine	H	O-amino acid
CH ₃	O-amino acid	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-amino acid
CH ₃	O-amino acid	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-amino acid
CH ₃	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-methyladenine	H	O-amino acid
CH ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methyladenine	H	O-amino acid
CH ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methylhypoxanthine	H	O-amino acid
CH ₃	O-amino acid	Cl	O	6-Methylthymine	H	O-acyl
CH ₃	O-amino acid	Cl	O	6-Methyluracil	H	O-acyl
CH ₃	O-amino acid	Cl	O	8-Methylguanine	H	O-acyl
CH ₃	O-amino acid	Cl	O	6-Methylcytosine	H	O-acyl
CH ₃	O-amino acid	Cl	O	8-Methyladenine	H	O-acyl
CH ₃	O-amino acid	Cl	O	8-Methylhypoxanthine	H	O-acyl
CH ₃	O-amino acid	Cl	O	5-Fluoro-6-Methyluracil	H	O-acyl
CH ₃	O-amino acid	Cl	O	5-Fluoro-6-Methylcytosine	H	O-acyl
CH ₃	O-amino acid	Cl	O	2-Fluoro-8-methyladenine	H	O-acyl
CH ₃	O-amino acid	Cl	O	2-Fluoro-8-methylhypoxanthine	H	O-acyl
CH ₃	O-amino acid	Cl	O	2-Amino-8-methyladenine	H	O-acyl
CH ₃	O-amino acid	Cl	O	2-Amino-8-methylhypoxanthine	H	O-acyl
CH ₃	O-amino acid	Cl	O	2-N-acetyl-8-methylguanine	H	O-acyl
CH ₃	O-amino acid	Cl	O	4-N-acetyl-8-methylcytosine	H	O-acyl
CH ₃	O-amino acid	Cl	O	6-N-acetyl-8-methyladenine	H	O-acyl
CH ₃	O-amino acid	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-acyl
CH ₃	O-amino acid	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-acyl
CH ₃	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-methyladenine	H	O-acyl
CH ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methyladenine	H	O-acyl
CH ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methylhypoxanthine	H	O-acyl
CH ₃	O-amino acid	Cl	O	6-Methylthymine	H	OH
CH ₃	O-amino acid	Cl	O	6-Methyluracil	H	OH
CH ₃	O-amino acid	Cl	O	8-Methylguanine	H	OH
CH ₃	O-amino acid	Cl	O	6-Methylcytosine	H	OH
CH ₃	O-amino acid	Cl	O	8-Methyladenine	H	OH

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-amino acid	Cl	O	8-Methylhypoxanthine	H	OH
CH ₃	O-amino acid	Cl	O	5-Fluoro-6-Methyluracil	H	OH
CH ₃	O-amino acid	Cl	O	5-Fluoro-6-Methylcytosine	H	OH
CH ₃	O-amino acid	Cl	O	2-Fluoro-8-methyladenine	H	OH
CH ₃	O-amino acid	Cl	O	2-Fluoro-8-methylhypoxanthine	H	OH
CH ₃	O-amino acid	Cl	O	2-Amino-8-methyladenine	H	OH
CH ₃	O-amino acid	Cl	O	2-Amino-8-methylhypoxanthine	H	OH
CH ₃	O-amino acid	Cl	O	2-N-acetyl-8-methylguanine	H	OH
CH ₃	O-amino acid	Cl	O	4-N-acetyl-8-methylcytosine	H	OH
CH ₃	O-amino acid	Cl	O	6-N-acetyl-8-methyladenine	H	OH
CH ₃	O-amino acid	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	OH
CH ₃	O-amino acid	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	H	OH
CH ₃	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-methyladenine	H	OH
CH ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methyladenine	H	OH
CH ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methylhypoxanthine	H	OH
CH ₃	O-amino acid	Cl	O	6-Methylthymine	OH	H
CH ₃	O-amino acid	Cl	O	6-Methyluracil	OH	H
CH ₃	O-amino acid	Cl	O	8-Methylguanine	OH	H
CH ₃	O-amino acid	Cl	O	6-Methylcytosine	OH	H
CH ₃	O-amino acid	Cl	O	8-Methyladenine	OH	H
CH ₃	O-amino acid	Cl	O	8-Methylhypoxanthine	OH	H
CH ₃	O-amino acid	Cl	O	5-Fluoro-6-Methyluracil	OH	H
CH ₃	O-amino acid	Cl	O	5-Fluoro-6-Methylcytosine	OH	H
CH ₃	O-amino acid	Cl	O	2-Fluoro-8-methyladenine	OH	H
CH ₃	O-amino acid	Cl	O	2-Fluoro-8-methylhypoxanthine	OH	H
CH ₃	O-amino acid	Cl	O	2-Amino-8-methyladenine	OH	H
CH ₃	O-amino acid	Cl	O	2-Amino-8-methylhypoxanthine	OH	H
CH ₃	O-amino acid	Cl	O	2-N-acetyl-8-methylguanine	OH	H
CH ₃	O-amino acid	Cl	O	4-N-acetyl-8-methylcytosine	OH	H
CH ₃	O-amino acid	Cl	O	6-N-acetyl-8-methyladenine	OH	H
CH ₃	O-amino acid	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	OH	H
CH ₃	O-amino acid	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	OH	H
CH ₃	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-methyladenine	OH	H
CH ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methyladenine	OH	H
CH ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methylhypoxanthine	OH	H
CH ₃	O-amino acid	H	O	6-Methylthymine	F	H
CH ₃	O-amino acid	H	O	6-Methyluracil	F	H
CH ₃	O-amino acid	H	O	8-Methylguanine	F	H
CH ₃	O-amino acid	H	O	6-Methylcytosine	F	H
CH ₃	O-amino acid	H	O	8-Methyladenine	F	H
CH ₃	O-amino acid	H	O	8-Methylhypoxanthine	F	H
CH ₃	O-amino acid	H	O	5-Fluoro-6-Methyluracil	F	H
CH ₃	O-amino acid	H	O	5-Fluoro-6-Methylcytosine	F	H
CH ₃	O-amino acid	H	O	2-Fluoro-8-methyladenine	F	H
CH ₃	O-amino acid	H	O	2-Fluoro-8-methylhypoxanthine	F	H
CH ₃	O-amino acid	H	O	2-Amino-8-methyladenine	F	H
CH ₃	O-amino acid	H	O	2-Amino-8-methylhypoxanthine	F	H
CH ₃	O-amino acid	H	O	2-N-acetyl-8-methylguanine	F	H
CH ₃	O-amino acid	H	O	4-N-acetyl-8-methylcytosine	F	H
CH ₃	O-amino acid	H	O	6-N-acetyl-8-methyladenine	F	H
CH ₃	O-amino acid	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	H
CH ₃	O-amino acid	H	O	6-N-acetyl-2-fluoro-8-methyladenine	F	H
CH ₃	O-amino acid	H	O	6-N-acetyl-2-amino-8-methyladenine	F	H
CH ₃	O-amino acid	H	O	2-N-acetylamino-8-methyladenine	F	H
CH ₃	O-amino acid	H	O	2-N-acetylamino-8-methylhypoxanthine	F	H
CH ₃	O-amino acid	H	O	6-Methylthymine	F	O-amino acid
CH ₃	O-amino acid	H	O	6-Methyluracil	F	O-amino acid
CH ₃	O-amino acid	H	O	8-Methylguanine	F	O-amino acid
CH ₃	O-amino acid	H	O	6-Methylcytosine	F	O-amino acid
CH ₃	O-amino acid	H	O	8-Methyladenine	F	O-amino acid
CH ₃	O-amino acid	H	O	8-Methylhypoxanthine	F	O-amino acid
CH ₃	O-amino acid	H	O	5-Fluoro-6-Methyluracil	F	O-amino acid
CH ₃	O-amino acid	H	O	5-Fluoro-6-Methylcytosine	F	O-amino acid
CH ₃	O-amino acid	H	O	2-Fluoro-8-methyladenine	F	O-amino acid
CH ₃	O-amino acid	H	O	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CH ₃	O-amino acid	H	O	2-Amino-8-methyladenine	F	O-amino acid
CH ₃	O-amino acid	H	O	2-Amino-8-methylhypoxanthine	F	O-amino acid
CH ₃	O-amino acid	H	O	2-N-acetyl-8-methylguanine	F	O-amino acid
CH ₃	O-amino acid	H	O	4-N-acetyl-8-methylcytosine	F	O-amino acid
CH ₃	O-amino acid	H	O	6-N-acetyl-8-methyladenine	F	O-amino acid
CH ₃	O-amino acid	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CH ₃	O-amino acid	H	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CH ₃	O-amino acid	H	O	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CH ₃	O-amino acid	H	O	2-N-acetylamino-8-methyladenine	F	O-amino acid
CH ₃	O-amino acid	H	O	2-N-acetylamino-8-methylhypoxanthine	F	O-amino acid

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-amino acid	H	O	2-N-acetylamino-8-methylhypoxanthine	F	O-amino acid
CH ₃	O-amino acid	H	O	6-Methylthymine	F	O-acyl
CH ₃	O-amino acid	H	O	6-Methyluracil	F	O-acyl
CH ₃	O-amino acid	H	O	8-Methylguanine	F	O-acyl
CH ₃	O-amino acid	H	O	6-Methylcytosine	F	O-acyl
CH ₃	O-amino acid	H	O	8-Methyladenine	F	O-acyl
CH ₃	O-amino acid	H	O	8-Methylhypoxanthine	F	O-acyl
CH ₃	O-amino acid	H	O	5-Fluoro-6-Methyluracil	F	O-acyl
CH ₃	O-amino acid	H	O	5-Fluoro-6-Methylcytosine	F	O-acyl
CH ₃	O-amino acid	H	O	2-Fluoro-8-methyladenine	F	O-acyl
CH ₃	O-amino acid	H	O	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CH ₃	O-amino acid	H	O	2-Amino-8-methyladenine	F	O-acyl
CH ₃	O-amino acid	H	O	2-Amino-8-methylhypoxanthine	F	O-acyl
CH ₃	O-amino acid	H	O	2-N-acetyl-8-methylguanine	F	O-acyl
CH ₃	O-amino acid	H	O	4-N-acetyl-8-methylcytosine	F	O-acyl
CH ₃	O-amino acid	H	O	6-N-acetyl-8-methyladenine	F	O-acyl
CH ₃	O-amino acid	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CH ₃	O-amino acid	H	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CH ₃	O-amino acid	H	O	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CH ₃	O-amino acid	H	O	2-N-acetylamino-8-methyladenine	F	O-acyl
CH ₃	O-amino acid	H	O	2-N-acetylamino-8-methylhypoxanthine	F	O-acyl
CH ₃	O-amino acid	H	O	6-Methylthymine	F	OH
CH ₃	O-amino acid	H	O	6-Methyluracil	F	OH
CH ₃	O-amino acid	H	O	8-Methylguanine	F	OH
CH ₃	O-amino acid	H	O	6-Methylcytosine	F	OH
CH ₃	O-amino acid	H	O	8-Methyladenine	F	OH
CH ₃	O-amino acid	H	O	8-Methylhypoxanthine	F	OH
CH ₃	O-amino acid	H	O	5-Fluoro-6-Methyluracil	F	OH
CH ₃	O-amino acid	H	O	5-Fluoro-6-Methylcytosine	F	OH
CH ₃	O-amino acid	H	O	2-Fluoro-8-methyladenine	F	OH
CH ₃	O-amino acid	H	O	2-Fluoro-8-methylhypoxanthine	F	OH
CH ₃	O-amino acid	H	O	2-Amino-8-methyladenine	F	OH
CH ₃	O-amino acid	H	O	2-Amino-8-methylhypoxanthine	F	OH
CH ₃	O-amino acid	H	O	2-N-acetyl-8-methylguanine	F	OH
CH ₃	O-amino acid	H	O	4-N-acetyl-8-methylcytosine	F	OH
CH ₃	O-amino acid	H	O	6-N-acetyl-8-methyladenine	F	OH
CH ₃	O-amino acid	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	OH
CH ₃	O-amino acid	H	O	6-N-acetyl-2-fluoro-8-methyladenine	F	OH
CH ₃	O-amino acid	H	O	6-N-acetyl-2-amino-8-methyladenine	F	OH
CH ₃	O-amino acid	H	O	2-N-acetylamino-8-methyladenine	F	OH
CH ₃	O-amino acid	H	O	2-N-acetylamino-8-methylhypoxanthine	F	OH
CH ₃	O-amino acid	H	O	6-Methylthymine	Br	H
CH ₃	O-amino acid	H	O	6-Methyluracil	Br	H
CH ₃	O-amino acid	H	O	8-Methylguanine	Br	H
CH ₃	O-amino acid	H	O	6-Methylcytosine	Br	H
CH ₃	O-amino acid	H	O	8-Methyladenine	Br	H
CH ₃	O-amino acid	H	O	8-Methylhypoxanthine	Br	H
CH ₃	O-amino acid	H	O	5-Fluoro-6-Methyluracil	Br	H
CH ₃	O-amino acid	H	O	5-Fluoro-6-Methylcytosine	Br	H
CH ₃	O-amino acid	H	O	2-Fluoro-8-methyladenine	Br	H
CH ₃	O-amino acid	H	O	2-Fluoro-8-methylhypoxanthine	Br	H
CH ₃	O-amino acid	H	O	2-Amino-8-methyladenine	Br	H
CH ₃	O-amino acid	H	O	2-Amino-8-methylhypoxanthine	Br	H
CH ₃	O-amino acid	H	O	2-N-acetyl-8-methylguanine	Br	H
CH ₃	O-amino acid	H	O	4-N-acetyl-8-methylcytosine	Br	H
CH ₃	O-amino acid	H	O	6-N-acetyl-8-methyladenine	Br	H
CH ₃	O-amino acid	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	H
CH ₃	O-amino acid	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	H
CH ₃	O-amino acid	H	O	6-N-acetyl-2-amino-8-methyladenine	Br	H
CH ₃	O-amino acid	H	O	2-N-acetylamino-8-methyladenine	Br	H
CH ₃	O-amino acid	H	O	2-N-acetylamino-8-methylhypoxanthine	Br	H
CH ₃	O-amino acid	H	O	6-Methylthymine	Br	O-amino acid
CH ₃	O-amino acid	H	O	6-Methyluracil	Br	O-amino acid
CH ₃	O-amino acid	H	O	8-Methylguanine	Br	O-amino acid
CH ₃	O-amino acid	H	O	6-Methylcytosine	Br	O-amino acid
CH ₃	O-amino acid	H	O	8-Methyladenine	Br	O-amino acid
CH ₃	O-amino acid	H	O	8-Methylhypoxanthine	Br	O-amino acid
CH ₃	O-amino acid	H	O	5-Fluoro-6-Methyluracil	Br	O-amino acid
CH ₃	O-amino acid	H	O	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CH ₃	O-amino acid	H	O	2-Fluoro-8-methyladenine	Br	O-amino acid
CH ₃	O-amino acid	H	O	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CH ₃	O-amino acid	H	O	2-Amino-8-methyladenine	Br	O-amino acid
CH ₃	O-amino acid	H	O	2-Amino-8-methylhypoxanthine	Br	O-amino acid

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-amino acid	H	O	2-N-acetyl-8-methylguanine	Br	O-amino acid
CH ₃	O-amino acid	H	O	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CH ₃	O-amino acid	H	O	6-N-acetyl-8-methyladenine	Br	O-amino acid
CH ₃	O-amino acid	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CH ₃	O-amino acid	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CH ₃	O-amino acid	H	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CH ₃	O-amino acid	H	O	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CH ₃	O-amino acid	H	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-amino acid
CH ₃	O-amino acid	H	O	6-Methylthymine	Br	O-acyl
CH ₃	O-amino acid	H	O	6-Methyluracil	Br	O-acyl
CH ₃	O-amino acid	H	O	8-Methylguanine	Br	O-acyl
CH ₃	O-amino acid	H	O	6-Methylcytosine	Br	O-acyl
CH ₃	O-amino acid	H	O	8-Methyladenine	Br	O-acyl
CH ₃	O-amino acid	H	O	8-Methylhypoxanthine	Br	O-acyl
CH ₃	O-amino acid	H	O	5-Fluoro-6-Methyluracil	Br	O-acyl
CH ₃	O-amino acid	H	O	5-Fluoro-6-Methylcytosine	Br	O-acyl
CH ₃	O-amino acid	H	O	2-Fluoro-8-methyladenine	Br	O-acyl
CH ₃	O-amino acid	H	O	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CH ₃	O-amino acid	H	O	2-Amino-8-methyladenine	Br	O-acyl
CH ₃	O-amino acid	H	O	2-Amino-8-methylhypoxanthine	Br	O-acyl
CH ₃	O-amino acid	H	O	2-N-acetyl-8-methylguanine	Br	O-acyl
CH ₃	O-amino acid	H	O	4-N-acetyl-8-methylcytosine	Br	O-acyl
CH ₃	O-amino acid	H	O	6-N-acetyl-8-methyladenine	Br	O-acyl
CH ₃	O-amino acid	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CH ₃	O-amino acid	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CH ₃	O-amino acid	H	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CH ₃	O-amino acid	H	O	2-N-acetylamino-8-methyladenine	Br	O-acyl
CH ₃	O-amino acid	H	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-acyl
CH ₃	O-amino acid	H	O	6-Methylthymine	Br	OH
CH ₃	O-amino acid	H	O	6-Methyluracil	Br	OH
CH ₃	O-amino acid	H	O	8-Methylguanine	Br	OH
CH ₃	O-amino acid	H	O	6-Methylcytosine	Br	OH
CH ₃	O-amino acid	H	O	8-Methyladenine	Br	OH
CH ₃	O-amino acid	H	O	8-Methylhypoxanthine	Br	OH
CH ₃	O-amino acid	H	O	5-Fluoro-6-Methyluracil	Br	OH
CH ₃	O-amino acid	H	O	5-Fluoro-6-Methylcytosine	Br	OH
CH ₃	O-amino acid	H	O	2-Fluoro-8-methyladenine	Br	OH
CH ₃	O-amino acid	H	O	2-Fluoro-8-methylhypoxanthine	Br	OH
CH ₃	O-amino acid	H	O	2-Amino-8-methyladenine	Br	OH
CH ₃	O-amino acid	H	O	2-Amino-8-methylhypoxanthine	Br	OH
CH ₃	O-amino acid	H	O	2-N-acetyl-8-methylguanine	Br	OH
CH ₃	O-amino acid	H	O	4-N-acetyl-8-methylcytosine	Br	OH
CH ₃	O-amino acid	H	O	6-N-acetyl-8-methyladenine	Br	OH
CH ₃	O-amino acid	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	OH
CH ₃	O-amino acid	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	OH
CH ₃	O-amino acid	H	O	6-N-acetyl-2-amino-8-methyladenine	Br	OH
CH ₃	O-amino acid	H	O	2-N-acetylamino-8-methyladenine	Br	OH
CH ₃	O-amino acid	H	O	2-N-acetylamino-8-methylhypoxanthine	Br	OH
CH ₃	O-amino acid	H	O	6-Methylthymine	Cl	H
CH ₃	O-amino acid	H	O	6-Methyluracil	Cl	H
CH ₃	O-amino acid	H	O	8-Methylguanine	Cl	H
CH ₃	O-amino acid	H	O	6-Methylcytosine	Cl	H
CH ₃	O-amino acid	H	O	8-Methyladenine	Cl	H
CH ₃	O-amino acid	H	O	8-Methylhypoxanthine	Cl	H
CH ₃	O-amino acid	H	O	5-Fluoro-6-Methyluracil	Cl	H
CH ₃	O-amino acid	H	O	5-Fluoro-6-Methylcytosine	Cl	H
CH ₃	O-amino acid	H	O	2-Fluoro-8-methyladenine	Cl	H
CH ₃	O-amino acid	H	O	2-Fluoro-8-methylhypoxanthine	Cl	H
CH ₃	O-amino acid	H	O	2-Amino-8-methyladenine	Cl	H
CH ₃	O-amino acid	H	O	2-Amino-8-methylhypoxanthine	Cl	H
CH ₃	O-amino acid	H	O	2-N-acetyl-8-methylguanine	Cl	H
CH ₃	O-amino acid	H	O	4-N-acetyl-8-methylcytosine	Cl	H
CH ₃	O-amino acid	H	O	6-N-acetyl-8-methyladenine	Cl	H
CH ₃	O-amino acid	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	H
CH ₃	O-amino acid	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	H
CH ₃	O-amino acid	H	O	6-N-acetyl-2-amino-8-methyladenine	Cl	H
CH ₃	O-amino acid	H	O	2-N-acetylamino-8-methyladenine	Cl	H
CH ₃	O-amino acid	H	O	2-N-acetylamino-8-methylhypoxanthine	Cl	H
CH ₃	O-amino acid	H	O	6-Methylthymine	Cl	O-amino acid
CH ₃	O-amino acid	H	O	6-Methyluracil	Cl	O-amino acid
CH ₃	O-amino acid	H	O	8-Methylguanine	Cl	O-amino acid
CH ₃	O-amino acid	H	O	6-Methylcytosine	Cl	O-amino acid
CH ₃	O-amino acid	H	O	8-Methyladenine	Cl	O-amino acid

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-amino acid	H	O	8-Methylhypoxanthine	Cl	O-amino acid
CH ₃	O-amino acid	H	O	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CH ₃	O-amino acid	H	O	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CH ₃	O-amino acid	H	O	2-Fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	O-amino acid	H	O	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	O-amino acid	H	O	2-Amino-8-methyladenine	Cl	O-amino acid
CH ₃	O-amino acid	H	O	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	O-amino acid	H	O	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CH ₃	O-amino acid	H	O	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CH ₃	O-amino acid	H	O	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CH ₃	O-amino acid	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CH ₃	O-amino acid	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	O-amino acid	H	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CH ₃	O-amino acid	H	O	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CH ₃	O-amino acid	H	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	O-amino acid	H	O	6-Methylthymine	Cl	O-acyl
CH ₃	O-amino acid	H	O	6-Methyluracil	Cl	O-acyl
CH ₃	O-amino acid	H	O	8-Methylguanine	Cl	O-acyl
CH ₃	O-amino acid	H	O	6-Methylcytosine	Cl	O-acyl
CH ₃	O-amino acid	H	O	8-Methyladenine	Cl	O-acyl
CH ₃	O-amino acid	H	O	8-Methylhypoxanthine	Cl	O-acyl
CH ₃	O-amino acid	H	O	5-Fluoro-6-Methyluracil	Cl	O-acyl
CH ₃	O-amino acid	H	O	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CH ₃	O-amino acid	H	O	2-Fluoro-8-methyladenine	Cl	O-acyl
CH ₃	O-amino acid	H	O	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CH ₃	O-amino acid	H	O	2-Amino-8-methyladenine	Cl	O-acyl
CH ₃	O-amino acid	H	O	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CH ₃	O-amino acid	H	O	2-N-acetyl-8-methylguanine	Cl	O-acyl
CH ₃	O-amino acid	H	O	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CH ₃	O-amino acid	H	O	6-N-acetyl-8-methyladenine	Cl	O-acyl
CH ₃	O-amino acid	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CH ₃	O-amino acid	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CH ₃	O-amino acid	H	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CH ₃	O-amino acid	H	O	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CH ₃	O-amino acid	H	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-acyl
CH ₃	O-amino acid	H	O	6-Methylthymine	Cl	OH
CH ₃	O-amino acid	H	O	6-Methyluracil	Cl	OH
CH ₃	O-amino acid	H	O	8-Methylguanine	Cl	OH
CH ₃	O-amino acid	H	O	6-Methylcytosine	Cl	OH
CH ₃	O-amino acid	H	O	8-Methyladenine	Cl	OH
CH ₃	O-amino acid	H	O	8-Methylhypoxanthine	Cl	OH
CH ₃	O-amino acid	H	O	5-Fluoro-6-Methyluracil	Cl	OH
CH ₃	O-amino acid	H	O	5-Fluoro-6-Methylcytosine	Cl	OH
CH ₃	O-amino acid	H	O	2-Fluoro-8-methyladenine	Cl	OH
CH ₃	O-amino acid	H	O	2-Fluoro-8-methylhypoxanthine	Cl	OH
CH ₃	O-amino acid	H	O	2-Amino-8-methyladenine	Cl	OH
CH ₃	O-amino acid	H	O	2-Amino-8-methylhypoxanthine	Cl	OH
CH ₃	O-amino acid	H	O	2-N-acetyl-8-methylguanine	Cl	OH
CH ₃	O-amino acid	H	O	4-N-acetyl-8-methylcytosine	Cl	OH
CH ₃	O-amino acid	H	O	6-N-acetyl-8-methyladenine	Cl	OH
CH ₃	O-amino acid	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	OH
CH ₃	O-amino acid	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	OH
CH ₃	O-amino acid	H	O	6-N-acetyl-2-amino-8-methyladenine	Cl	OH
CH ₃	O-amino acid	H	O	2-N-acetylamino-8-methyladenine	Cl	OH
CH ₃	O-amino acid	H	O	2-N-acetylamino-8-methylhypoxanthine	Cl	OH
CH ₃	O-amino acid	H	O	6-Methylthymine	H	H
CH ₃	O-amino acid	H	O	6-Methyluracil	H	H
CH ₃	O-amino acid	H	O	8-Methylguanine	H	H
CH ₃	O-amino acid	H	O	6-Methylcytosine	H	H
CH ₃	O-amino acid	H	O	8-Methyladenine	H	H
CH ₃	O-amino acid	H	O	8-Methylhypoxanthine	H	H
CH ₃	O-amino acid	H	O	5-Fluoro-6-Methyluracil	H	H
CH ₃	O-amino acid	H	O	5-Fluoro-6-Methylcytosine	H	H
CH ₃	O-amino acid	H	O	2-Fluoro-8-methyladenine	H	H
CH ₃	O-amino acid	H	O	2-Fluoro-8-methylhypoxanthine	H	H
CH ₃	O-amino acid	H	O	2-Amino-8-methyladenine	H	H
CH ₃	O-amino acid	H	O	2-Amino-8-methylhypoxanthine	H	H
CH ₃	O-amino acid	H	O	2-N-acetyl-8-methylguanine	H	H
CH ₃	O-amino acid	H	O	4-N-acetyl-8-methylcytosine	H	H
CH ₃	O-amino acid	H	O	6-N-acetyl-8-methyladenine	H	H
CH ₃	O-amino acid	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	H
CH ₃	O-amino acid	H	O	6-N-acetyl-2-fluoro-8-methyladenine	H	H
CH ₃	O-amino acid	H	O	6-N-acetyl-2-amino-8-methyladenine	H	H
CH ₃	O-amino acid	H	O	2-N-acetylamino-8-methyladenine	H	H

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-amino acid	H	O	2-N-acetylamino-8-methylhypoxanthine	H	H
CH ₃	O-amino acid	H	O	6-Methylthymine	H	O-amino acid
CH ₃	O-amino acid	H	O	6-Methyluracil	H	O-amino acid
CH ₃	O-amino acid	H	O	8-Methylguanine	H	O-amino acid
CH ₃	O-amino acid	H	O	6-Methylcytosine	H	O-amino acid
CH ₃	O-amino acid	H	O	8-Methyladenine	H	O-amino acid
CH ₃	O-amino acid	H	O	8-Methylhypoxanthine	H	O-amino acid
CH ₃	O-amino acid	H	O	5-Fluoro-6-Methyluracil	H	O-amino acid
CH ₃	O-amino acid	H	O	5-Fluoro-6-Methylcytosine	H	O-amino acid
CH ₃	O-amino acid	H	O	2-Fluoro-8-methyladenine	H	O-amino acid
CH ₃	O-amino acid	H	O	2-Fluoro-8-methylhypoxanthine	H	O-amino acid
CH ₃	O-amino acid	H	O	2-Amino-8-methyladenine	H	O-amino acid
CH ₃	O-amino acid	H	O	2-Amino-8-methylhypoxanthine	H	O-amino acid
CH ₃	O-amino acid	H	O	2-N-acetyl-8-methylguanine	H	O-amino acid
CH ₃	O-amino acid	H	O	4-N-acetyl-8-methylcytosine	H	O-amino acid
CH ₃	O-amino acid	H	O	6-N-acetyl-8-methyladenine	H	O-amino acid
CH ₃	O-amino acid	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-amino acid
CH ₃	O-amino acid	H	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-amino acid
CH ₃	O-amino acid	H	O	6-N-acetyl-2-amino-8-methyladenine	H	O-amino acid
CH ₃	O-amino acid	H	O	2-IN-acetylamino-8-methyladenine	H	O-amino acid
CH ₃	O-amino acid	H	O	2-N-acetylamino-8-methylhypoxanthine	H	O-amino acid
CH ₃	O-amino acid	H	O	6-Methylthymine	H	O-acyl
CH ₃	O-amino acid	H	O	6-Methyluracil	H	O-acyl
CH ₃	O-amino acid	H	O	8-Methylguanine	H	O-acyl
CH ₃	O-amino acid	H	O	6-Methylcytosine	H	O-acyl
CH ₃	O-amino acid	H	O	8-Methyladenine	H	O-acyl
CH ₃	O-amino acid	H	O	8-Methylhypoxanthine	H	O-acyl
CH ₃	O-amino acid	H	O	5-Fluoro-6-Methyluracil	H	O-acyl
CH ₃	O-amino acid	H	O	5-Fluoro-6-Methylcytosine	H	O-acyl
CH ₃	O-amino acid	H	O	2-Fluoro-8-methyladenine	H	O-acyl
CH ₃	O-amino acid	H	O	2-Fluoro-8-methylhypoxanthine	H	O-acyl
CH ₃	O-amino acid	H	O	2-Amino-8-methyladenine	H	O-acyl
CH ₃	O-amino acid	H	O	2-Amino-8-methylhypoxanthine	H	O-acyl
CH ₃	O-amino acid	H	O	2-N-acetyl-8-methylguanine	H	O-acyl
CH ₃	O-amino acid	H	O	4-N-acetyl-8-methylcytosine	H	O-acyl
CH ₃	O-amino acid	H	O	6-N-acetyl-8-methyladenine	H	O-acyl
CH ₃	O-amino acid	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-acyl
CH ₃	O-amino acid	H	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-acyl
CH ₃	O-amino acid	H	O	6-N-acetyl-2-amino-8-methyladenine	H	O-acyl
CH ₃	O-amino acid	H	O	2-N-acetylamino-8-methyladenine	H	O-acyl
CH ₃	O-amino acid	H	O	2-N-acetylamino-8-methylhypoxanthine	H	O-acyl
CH ₃	O-amino acid	H	O	6-Methylthymine	H	OH
CH ₃	O-amino acid	H	O	6-Methyluracil	H	OH
CH ₃	O-amino acid	H	O	8-Methylguanine	H	OH
CH ₃	O-amino acid	H	O	6-Methylcytosine	H	OH
CH ₃	O-amino acid	H	O	8-Methyladenine	H	OH
CH ₃	O-amino acid	H	O	8-Methylhypoxanthine	H	OH
CH ₃	O-amino acid	H	O	5-Fluoro-6-Methyluracil	H	OH
CH ₃	O-amino acid	H	O	5-Fluoro-6-Methylcytosine	H	OH
CH ₃	O-amino acid	H	O	2-Fluoro-8-methyladenine	H	OH
CH ₃	O-amino acid	H	O	2-Fluoro-8-methylhypoxanthine	H	OH
CH ₃	O-amino acid	H	O	2-Amino-8-methyladenine	H	OH
CH ₃	O-amino acid	H	O	2-Amino-8-methylhypoxanthine	H	OH
CH ₃	O-amino acid	H	O	2-N-acetyl-8-methylguanine	H	OH
CH ₃	O-amino acid	H	O	4-N-acetyl-8-methylcytosine	H	OH
CH ₃	O-amino acid	H	O	6-N-acetyl-8-methyladenine	H	OH
CH ₃	O-amino acid	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	OH
CH ₃	O-amino acid	H	O	6-N-acetyl-2-fluoro-8-methyladenine	H	OH
CH ₃	O-amino acid	H	O	6-N-acetyl-2-amino-8-methyladenine	H	OH
CH ₃	O-amino acid	H	O	2-N-acetylamino-8-methyladenine	H	OH
CH ₃	O-amino acid	H	O	2-N-acetylamino-8-methylhypoxanthine	H	OH
CH ₃	O-amino acid	H	O	6-Methylthymine	OH	H
CH ₃	O-amino acid	H	O	6-Methyluracil	OH	H
CH ₃	O-amino acid	H	O	8-Methylguanine	OH	H
CH ₃	O-amino acid	H	O	6-Methylcytosine	OH	H
CH ₃	O-amino acid	H	O	8-Methyladenine	OH	H
CH ₃	O-amino acid	H	O	8-Methylhypoxanthine	OH	H
CH ₃	O-amino acid	H	O	5-Fluoro-6-Methyluracil	OH	H
CH ₃	O-amino acid	H	O	5-Fluoro-6-Methylcytosine	OH	H
CH ₃	O-amino acid	H	O	2-Fluoro-8-methyladenine	OH	H
CH ₃	O-amino acid	H	O	2-Fluoro-8-methylhypoxanthine	OH	H
CH ₃	O-amino acid	H	O	2-Amino-8-methyladenine	OH	H
CH ₃	O-amino acid	H	O	2-Amino-8-methylhypoxanthine	OH	H

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-amino acid	H	O	2-N-acetyl-8-methylguanine	OH	H
CH ₃	O-amino acid	H	O	4-N-acetyl-8-methylcytosine	OH	H
CH ₃	O-amino acid	H	O	6-N-acetyl-8-methyladenine	OH	H
CH ₃	O-amino acid	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	OH	H
CH ₃	O-amino acid	H	O	6-N-acetyl-2-fluoro-8-methyladenine	OH	H
CH ₃	O-amino acid	H	O	6-N-acetyl-2-amino-8-methyladenine	OH	H
CH ₃	O-amino acid	H	O	2-N-acetylamino-8-methyladenine	OH	H
CH ₃	O-amino acid	H	O	2-N-acetylamino-8-methylhypoxanthine	OH	H
CH ₃	OH	F	O	6-Methylthymine	F	O-amino acid
CH ₃	OH	F	O	6-Methyluracil	F	O-amino acid
CH ₃	OH	F	O	8-Methylguanine	F	O-amino acid
CH ₃	OH	F	O	6-Methylcytosine	F	O-amino acid
CH ₃	OH	F	O	8-Methyladenine	F	O-amino acid
CH ₃	OH	F	O	8-Methylhypoxanthine	F	O-amino acid
CH ₃	OH	F	O	5-Fluoro-6-Methyluracil	F	O-amino acid
CH ₃	OH	F	O	5-Fluoro-6-Methylcytosine	F	O-amino acid
CH ₃	OH	F	O	2-Fluoro-8-methyladenine	F	O-amino acid
CH ₃	OH	F	O	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CH ₃	OH	F	O	2-Amino-8-methyladenine	F	O-amino acid
CH ₃	OH	F	O	2-Amino-8-methylhypoxanthine	F	O-amino acid
CH ₃	OH	F	O	2-N-acetyl-8-methylguanine	F	O-amino acid
CH ₃	OH	F	O	4-N-acetyl-8-methylcytosine	F	O-amino acid
CH ₃	OH	F	O	6-N-acetyl-8-methyladenine	F	O-amino acid
CH ₃	OH	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CH ₃	OH	F	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CH ₃	OH	F	O	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CH ₃	OH	F	O	2-N-acetylamino-8-methyladenine	F	O-amino acid
CH ₃	OH	F	O	2-N-acetylamino-8-methylhypoxanthine	F	O-amino acid
CH ₃	OH	F	O	6-Methylthymine	F	O-acyl
CH ₃	OH	F	O	6-Methyluracil	F	O-acyl
CH ₃	OH	F	O	8-Methylguanine	F	O-acyl
CH ₃	OH	F	O	6-Methylcytosine	F	O-acyl
CH ₃	OH	F	O	8-Methyladenine	F	O-acyl
CH ₃	OH	F	O	8-Methylhypoxanthine	F	O-acyl
CH ₃	OH	F	O	5-Fluoro-6-Methyluracil	F	O-acyl
CH ₃	OH	F	O	5-Fluoro-6-Methylcytosine	F	O-acyl
CH ₃	OH	F	O	2-Fluoro-8-methyladenine	F	O-acyl
CH ₃	OH	F	O	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CH ₃	OH	F	O	2-Amino-8-methyladenine	F	O-acyl
CH ₃	OH	F	O	2-Amino-8-methylhypoxanthine	F	O-acyl
CH ₃	OH	F	O	2-N-acetyl-8-methylguanine	F	O-acyl
CH ₃	OH	F	O	4-N-acetyl-8-methylcytosine	F	O-acyl
CH ₃	OH	F	O	6-N-acetyl-8-methyladenine	F	O-acyl
CH ₃	OH	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CH ₃	OH	F	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CH ₃	OH	F	O	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CH ₃	OH	F	O	2-N-acetylamino-8-methyladenine	F	O-acyl
CH ₃	OH	F	O	2-N-acetylamino-8-methylhypoxanthine	F	O-acyl
CH ₃	OH	F	O	6-Methylthymine	Br	O-amino acid
CH ₃	OH	F	O	6-Methyluracil	Br	O-amino acid
CH ₃	OH	F	O	8-Methylguanine	Br	O-amino acid
CH ₃	OH	F	O	6-Methylcytosine	Br	O-amino acid
CH ₃	OH	F	O	8-Methyladenine	Br	O-amino acid
CH ₃	OH	F	O	8-Methylhypoxanthine	Br	O-amino acid
CH ₃	OH	F	O	5-Fluoro-6-Methyluracil	Br	O-amino acid
CH ₃	OH	F	O	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CH ₃	OH	F	O	2-Fluoro-8-methyladenine	Br	O-amino acid
CH ₃	OH	F	O	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CH ₃	OH	F	O	2-Amino-8-methyladenine	Br	O-amino acid
CH ₃	OH	F	O	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CH ₃	OH	F	O	2-N-acetyl-8-methylguanine	Br	O-amino acid
CH ₃	OH	F	O	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CH ₃	OH	F	O	6-N-acetyl-8-methyladenine	Br	O-amino acid
CH ₃	OH	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CH ₃	OH	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CH ₃	OH	F	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CH ₃	OH	F	O	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CH ₃	OH	F	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-amino acid
CH ₃	OH	F	O	6-Methylthymine	Br	O-acyl
CH ₃	OH	F	O	6-Methyluracil	Br	O-acyl
CH ₃	OH	F	O	8-Methylguanine	Br	O-acyl
CH ₃	OH	F	O	6-Methylcytosine	Br	O-acyl
CH ₃	OH	F	O	8-Methyladenine	Br	O-acyl

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	OH	F	O	8-Methylhypoxanthine	Br	O-acyl
CH ₃	OH	F	O	5-Fluoro-6-Methyluracil	Br	O-acyl
CH ₃	OH	F	O	5-Fluoro-6-Methylcytosine	Br	O-acyl
CH ₃	OH	F	O	2-Fluoro-8-methyladenine	Br	O-acyl
CH ₃	OH	F	O	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CH ₃	OH	F	O	2-Amino-8-methyladenine	Br	O-acyl
CH ₃	OH	F	O	2-Amino-8-methylhypoxanthine	Br	O-acyl
CH ₃	OH	F	O	2-N-acetyl-8-methylguanine	Br	O-acyl
CH ₃	OH	F	O	4-N-acetyl-8-methylcytosine	Br	O-acyl
CH ₃	OH	F	O	6-N-acetyl-8-methyladenine	Br	O-acyl
CH ₃	OH	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CH ₃	OH	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CH ₃	OH	F	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CH ₃	OH	F	O	2-N-acetylamino-8-methyladenine	Br	O-acyl
CH ₃	OH	F	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-acyl
CH ₃	OH	F	O	6-Methylthymine	Cl	O-amino acid
CH ₃	OH	F	O	6-Methyluracil	Cl	O-amino acid
CH ₃	OH	F	O	8-Methylguanine	Cl	O-amino acid
CH ₃	OH	F	O	6-Methylcytosine	Cl	O-amino acid
CH ₃	OH	F	O	8-Methyladenine	Cl	O-amino acid
CH ₃	OH	F	O	8-Methylhypoxanthine	Cl	O-amino acid
CH ₃	OH	F	O	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CH ₃	OH	F	O	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CH ₃	OH	F	O	2-Fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	OH	F	O	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	OH	F	O	2-Amino-8-methyladenine	Cl	O-amino acid
CH ₃	OH	F	O	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	OH	F	O	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CH ₃	OH	F	O	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CH ₃	OH	F	O	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CH ₃	OH	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CH ₃	OH	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	OH	F	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CH ₃	OH	F	O	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CH ₃	OH	F	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	OH	F	O	6-Methylthymine	Cl	O-acyl
CH ₃	OH	F	O	6-Methyluracil	Cl	O-acyl
CH ₃	OH	F	O	8-Methylguanine	Cl	O-acyl
CH ₃	OH	F	O	6-Methylcytosine	Cl	O-acyl
CH ₃	OH	F	O	8-Methyladenine	Cl	O-acyl
CH ₃	OH	F	O	8-Methylhypoxanthine	Cl	O-acyl
CH ₃	OH	F	O	5-Fluoro-6-Methyluracil	Cl	O-acyl
CH ₃	OH	F	O	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CH ₃	OH	F	O	2-Fluoro-8-methyladenine	Cl	O-acyl
CH ₃	OH	F	O	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CH ₃	OH	F	O	2-Amino-8-methyladenine	Cl	O-acyl
CH ₃	OH	F	O	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CH ₃	OH	F	O	2-N-acetyl-8-methylguanine	Cl	O-acyl
CH ₃	OH	F	O	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CH ₃	OH	F	O	6-N-acetyl-8-methyladenine	Cl	O-acyl
CH ₃	OH	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CH ₃	OH	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CH ₃	OH	F	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CH ₃	OH	F	O	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CH ₃	OH	F	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-acyl
CH ₃	OH	F	O	6-Methylthymine	H	O-amino acid
CH ₃	OH	F	O	6-Methyluracil	H	O-amino acid
CH ₃	OH	F	O	8-Methylguanine	H	O-amino acid
CH ₃	OH	F	O	6-Methylcytosine	H	O-amino acid
CH ₃	OH	F	O	8-Methyladenine	H	O-amino acid
CH ₃	OH	F	O	8-Methylhypoxanthine	H	O-amino acid
CH ₃	OH	F	O	5-Fluoro-6-Methyluracil	H	O-amino acid
CH ₃	OH	F	O	5-Fluoro-6-Methylcytosine	H	O-amino acid
CH ₃	OH	F	O	2-Fluoro-8-methyladenine	H	O-amino acid
CH ₃	OH	F	O	2-Fluoro-8-methylhypoxanthine	H	O-amino acid
CH ₃	OH	F	O	2-Amino-8-methyladenine	H	O-amino acid
CH ₃	OH	F	O	2-Amino-8-methylhypoxanthine	H	O-amino acid
CH ₃	OH	F	O	2-N-acetyl-8-methylguanine	H	O-amino acid
CH ₃	OH	F	O	4-N-acetyl-8-methylcytosine	H	O-amino acid
CH ₃	OH	F	O	6-N-acetyl-8-methyladenine	H	O-amino acid
CH ₃	OH	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-amino acid
CH ₃	OH	F	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-amino acid
CH ₃	OH	F	O	6-N-acetyl-2-amino-8-methyladenine	H	O-amino acid
CH ₃	OH	F	O	2-N-acetylamino-8-methyladenine	H	O-amino acid

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	OH	F	O	2-N-acetylamino-8-methylhypoxanthine	H	O-amino acid
CH ₃	OH	F	O	6-Methylthymine	H	O-acyl
CH ₃	OH	F	O	6-Methyluracil	H	O-acyl
CH ₃	OH	F	O	8-Methylguanine	H	O-acyl
CH ₃	OH	F	O	6-Methylcytosine	H	O-acyl
CH ₃	OH	F	O	8-Methyladenine	H	O-acyl
CH ₃	OH	F	O	8-Methylhypoxanthine	H	O-acyl
CH ₃	OH	F	O	5-Fluoro-6-Methyluracil	H	O-acyl
CH ₃	OH	F	O	5-Fluoro-6-Methylcytosine	H	O-acyl
CH ₃	OH	F	O	2-Fluoro-8-methyladenine	H	O-acyl
CH ₃	OH	F	O	2-Fluoro-8-methylhypoxanthine	H	O-acyl
CH ₃	OH	F	O	2-Amino-8-methyladenine	H	O-acyl
CH ₃	OH	F	O	2-Amino-8-methylhypoxanthine	H	O-acyl
CH ₃	OH	F	O	2-N-acetyl-8-methylguanine	H	O-acyl
CH ₃	OH	F	O	4-N-acetyl-8-methylcytosine	H	O-acyl
CH ₃	OH	F	O	6-N-acetyl-8-methyladenine	H	O-acyl
CH ₃	OH	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-acyl
CH ₃	OH	F	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-acyl
CH ₃	OH	F	O	6-N-acetyl-2-amino-8-methyladenine	H	O-acyl
CH ₃	OH	F	O	2-N-acetylamino-8-methyladenine	H	O-acyl
CH ₃	OH	F	O	2-N-acetylamino-8-methylhypoxanthine	H	O-acyl
CH ₃	OH	Br	O	6-Methylthymine	F	O-amino acid
CH ₃	OH	Br	O	6-Methyluracil	F	O-amino acid
CH ₃	OH	Br	O	8-Methylguanine	F	O-amino acid
CH ₃	OH	Br	O	6-Methylcytosine	F	O-amino acid
CH ₃	OH	Br	O	8-Methyladenine	F	O-amino acid
CH ₃	OH	Br	O	8-Methylhypoxanthine	F	O-amino acid
CH ₃	OH	Br	O	5-Fluoro-6-Methyluracil	F	O-amino acid
CH ₃	OH	Br	O	5-Fluoro-6-Methylcytosine	F	O-amino acid
CH ₃	OH	Br	O	2-Fluoro-8-methyladenine	F	O-amino acid
CH ₃	OH	Br	O	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CH ₃	OH	Br	O	2-Amino-8-methyladenine	F	O-amino acid
CH ₃	OH	Br	O	2-Amino-8-methylhypoxanthine	F	O-amino acid
CH ₃	OH	Br	O	2-N-acetyl-8-methylguanine	F	O-amino acid
CH ₃	OH	Br	O	4-N-acetyl-8-methylcytosine	F	O-amino acid
CH ₃	OH	Br	O	6-N-acetyl-8-methyladenine	F	O-amino acid
CH ₃	OH	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CH ₃	OH	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CH ₃	OH	Br	O	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CH ₃	OH	Br	O	2-N-acetylamino-8-methyladenine	F	O-amino acid
CH ₃	OH	Br	O	2-N-acetylamino-8-methylhypoxanthine	F	O-amino acid
CH ₃	OH	Br	O	6-Methylthymine	F	O-acyl
CH ₃	OH	Br	O	6-Methyluracil	F	O-acyl
CH ₃	OH	Br	O	8-Methylguanine	F	O-acyl
CH ₃	OH	Br	O	6-Methylcytosine	F	O-acyl
CH ₃	OH	Br	O	8-Methyladenine	F	O-acyl
CH ₃	OH	Br	O	8-Methylhypoxanthine	F	O-acyl
CH ₃	OH	Br	O	5-Fluoro-6-Methyluracil	F	O-acyl
CH ₃	OH	Br	O	5-Fluoro-6-Methylcytosine	F	O-acyl
CH ₃	OH	Br	O	2-Fluoro-8-methyladenine	F	O-acyl
CH ₃	OH	Br	O	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CH ₃	OH	Br	O	2-Amino-8-methyladenine	F	O-acyl
CH ₃	OH	Br	O	2-Amino-8-methylhypoxanthine	F	O-acyl
CH ₃	OH	Br	O	2-N-acetyl-8-methylguanine	F	O-acyl
CH ₃	OH	Br	O	4-N-acetyl-8-methylcytosine	F	O-acyl
CH ₃	OH	Br	O	6-N-acetyl-8-methyladenine	F	O-acyl
CH ₃	OH	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CH ₃	OH	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CH ₃	OH	Br	O	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CH ₃	OH	Br	O	2-N-acetylamino-8-methyladenine	F	O-acyl
CH ₃	OH	Br	O	2-N-acetylamino-8-methylhypoxanthine	F	O-acyl
CH ₃	OH	Br	O	6-Methylthymine	Br	O-amino acid
CH ₃	OH	Br	O	6-Methyluracil	Br	O-amino acid
CH ₃	OH	Br	O	8-Methylguanine	Br	O-amino acid
CH ₃	OH	Br	O	6-Methylcytosine	Br	O-amino acid
CH ₃	OH	Br	O	8-Methyladenine	Br	O-amino acid
CH ₃	OH	Br	O	8-Methylhypoxanthine	Br	O-amino acid
CH ₃	OH	Br	O	5-Fluoro-6-Methyluracil	Br	O-amino acid
CH ₃	OH	Br	O	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CH ₃	OH	Br	O	2-Fluoro-8-methyladenine	Br	O-amino acid
CH ₃	OH	Br	O	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CH ₃	OH	Br	O	2-Amino-8-methyladenine	Br	O-amino acid
CH ₃	OH	Br	O	2-Amino-8-methylhypoxanthine	Br	O-amino acid

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	OH	Br	O	2-N-acetyl-8-methylguanine	Br	O-amino acid
CH ₃	OH	Br	O	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CH ₃	OH	Br	O	6-N-acetyl-8-methyladenine	Br	O-amino acid
CH ₃	OH	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CH ₃	OH	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CH ₃	OH	Br	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CH ₃	OH	Br	O	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CH ₃	OH	Br	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-amino acid
CH ₃	OH	Br	O	6-Methylthymine	Br	O-acyl
CH ₃	OH	Br	O	6-Methyluracil	Br	O-acyl
CH ₃	OH	Br	O	8-Methylguanine	Br	O-acyl
CH ₃	OH	Br	O	6-Methylcytosine	Br	O-acyl
CH ₃	OH	Br	O	8-Methyladenine	Br	O-acyl
CH ₃	OH	Br	O	8-Methylhypoxanthine	Br	O-acyl
CH ₃	OH	Br	O	5-Fluoro-6-Methyluracil	Br	O-acyl
CH ₃	OH	Br	O	5-Fluoro-6-Methylcytosine	Br	O-acyl
CH ₃	OH	Br	O	2-Fluoro-8-methyladenine	Br	O-acyl
CH ₃	OH	Br	O	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CH ₃	OH	Br	O	2-Amino-8-methyladenine	Br	O-acyl
CH ₃	OH	Br	O	2-Amino-8-methylhypoxanthine	Br	O-acyl
CH ₃	OH	Br	O	2-N-acetyl-8-methylguanine	Br	O-acyl
CH ₃	OH	Br	O	4-N-acetyl-8-methylcytosine	Br	O-acyl
CH ₃	OH	Br	O	6-N-acetyl-8-methyladenine	Br	O-acyl
CH ₃	OH	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CH ₃	OH	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CH ₃	OH	Br	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CH ₃	OH	Br	O	2-N-acetylamino-8-methyladenine	Br	O-acyl
CH ₃	OH	Br	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-acyl
CH ₃	OH	Br	O	6-Methylthymine	Cl	O-amino acid
CH ₃	OH	Br	O	6-Methyluracil	Cl	O-amino acid
CH ₃	OH	Br	O	8-Methylguanine	Cl	O-amino acid
CH ₃	OH	Br	O	6-Methylcytosine	Cl	O-amino acid
CH ₃	OH	Br	O	8-Methyladenine	Cl	O-amino acid
CH ₃	OH	Br	O	8-Methylhypoxanthine	Cl	O-amino acid
CH ₃	OH	Br	O	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CH ₃	OH	Br	O	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CH ₃	OH	Br	O	2-Fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	OH	Br	O	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	OH	Br	O	2-Amino-8-methyladenine	Cl	O-amino acid
CH ₃	OH	Br	O	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	OH	Br	O	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CH ₃	OH	Br	O	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CH ₃	OH	Br	O	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CH ₃	OH	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CH ₃	OH	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	OH	Br	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CH ₃	OH	Br	O	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CH ₃	OH	Br	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	OH	Br	O	6-Methylthymine	Cl	O-acyl
CH ₃	OH	Br	O	6-Methyluracil	Cl	O-acyl
CH ₃	OH	Br	O	8-Methylguanine	Cl	O-acyl
CH ₃	OH	Br	O	6-Methylcytosine	Cl	O-acyl
CH ₃	OH	Br	O	8-Methyladenine	Cl	O-acyl
CH ₃	OH	Br	O	8-Methylhypoxanthine	Cl	O-acyl
CH ₃	OH	Br	O	5-Fluoro-6-Methyluracil	Cl	O-acyl
CH ₃	OH	Br	O	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CH ₃	OH	Br	O	2-Fluoro-8-methyladenine	Cl	O-acyl
CH ₃	OH	Br	O	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CH ₃	OH	Br	O	2-Amino-8-methyladenine	Cl	O-acyl
CH ₃	OH	Br	O	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CH ₃	OH	Br	O	2-N-acetyl-8-methylguanine	Cl	O-acyl
CH ₃	OH	Br	O	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CH ₃	OH	Br	O	6-N-acetyl-8-methyladenine	Cl	O-acyl
CH ₃	OH	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CH ₃	OH	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CH ₃	OH	Br	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CH ₃	OH	Br	O	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CH ₃	OH	Br	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-acyl
CH ₃	OH	Br	O	6-Methylthymine	H	O-amino acid
CH ₃	OH	Br	O	6-Methyluracil	H	O-amino acid
CH ₃	OH	Br	O	8-Methylguanine	H	O-amino acid
CH ₃	OH	Br	O	6-Methylcytosine	H	O-amino acid
CH ₃	OH	Br	O	8-Methyladenine	H	O-amino acid

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	OH	Br	O	8-Methylhypoxanthine	H	O-amino acid
CH ₃	OH	Br	O	5-Fluoro-6-Methyluracil	H	O-amino acid
CH ₃	OH	Br	O	5-Fluoro-6-Methylcytosine	H	O-amino acid
CH ₃	OH	Br	O	2-Fluoro-8-methyladenine	H	O-amino acid
CH ₃	OH	Br	O	2-Fluoro-8-methylhypoxanthine	H	O-amino acid
CH ₃	OH	Br	O	2-Amino-8-methyladenine	H	O-amino acid
CH ₃	OH	Br	O	2-Amino-8-methylhypoxanthine	H	O-amino acid
CH ₃	OH	Br	O	2-N-acetyl-8-methylguanine	H	O-amino acid
CH ₃	OH	Br	O	4-N-acetyl-8-methylcytosine	H	O-amino acid
CH ₃	OH	Br	O	6-N-acetyl-8-methyladenine	H	O-amino acid
CH ₃	OH	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-amino acid
CH ₃	OH	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-amino acid
CH ₃	OH	Br	O	6-N-acetyl-2-amino-8-methyladenine	H	O-amino acid
CH ₃	OH	Br	O	2-N-acetylamino-8-methyladenine	H	O-amino acid
CH ₃	OH	Br	O	2-N-acetylamino-8-methylhypoxanthine	H	O-amino acid
CH ₃	OH	Br	O	6-Methylthymine	H	O-acyl
CH ₃	OH	Br	O	6-Methyluracil	H	O-acyl
CH ₃	OH	Br	O	8-Methylguanine	H	O-acyl
CH ₃	OH	Br	O	6-Methylcytosine	H	O-acyl
CH ₃	OH	Br	O	8-Methyladenine	H	O-acyl
CH ₃	OH	Br	O	8-Methylhypoxanthine	H	O-acyl
CH ₃	OH	Br	O	5-Fluoro-6-Methyluracil	H	O-acyl
CH ₃	OH	Br	O	5-Fluoro-6-Methylcytosine	H	O-acyl
CH ₃	OH	Br	O	2-Fluoro-8-methyladenine	H	O-acyl
CH ₃	OH	Br	O	2-Fluoro-8-methylhypoxanthine	H	O-acyl
CH ₃	OH	Br	O	2-Amino-8-methyladenine	H	O-acyl
CH ₃	OH	Br	O	2-Amino-8-methylhypoxanthine	H	O-acyl
CH ₃	OH	Br	O	2-N-acetyl-8-methylguanine	H	O-acyl
CH ₃	OH	Br	O	4-N-acetyl-8-methylcytosine	H	O-acyl
CH ₃	OH	Br	O	6-N-acetyl-8-methyladenine	H	O-acyl
CH ₃	OH	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-acyl
CH ₃	OH	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-acyl
CH ₃	OH	Br	O	6-N-acetyl-2-amino-8-methyladenine	H	O-acyl
CH ₃	OH	Br	O	2-N-acetylamino-8-methyladenine	H	O-acyl
CH ₃	OH	Br	O	2-N-acetylamino-8-methylhypoxanthine	H	O-acyl
CH ₃	OH	Cl	O	6-Methylthymine	F	O-amino acid
CH ₃	OH	Cl	O	6-Methyluracil	F	O-amino acid
CH ₃	OH	Cl	O	8-Methylguanine	F	O-amino acid
CH ₃	OH	Cl	O	6-Methylcytosine	F	O-amino acid
CH ₃	OH	Cl	O	8-Methyladenine	F	O-amino acid
CH ₃	OH	Cl	O	8-Methylhypoxanthine	F	O-amino acid
CH ₃	OH	Cl	O	5-Fluoro-6-Methyluracil	F	O-amino acid
CH ₃	OH	Cl	O	5-Fluoro-6-Methylcytosine	F	O-amino acid
CH ₃	OH	Cl	O	2-Fluoro-8-methyladenine	F	O-amino acid
CH ₃	OH	Cl	O	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CH ₃	OH	Cl	O	2-Amino-8-methyladenine	F	O-amino acid
CH ₃	OH	Cl	O	2-Amino-8-methylhypoxanthine	F	O-amino acid
CH ₃	OH	Cl	O	2-N-acetyl-8-methylguanine	F	O-amino acid
CH ₃	OH	Cl	O	4-N-acetyl-8-methylcytosine	F	O-amino acid
CH ₃	OH	Cl	O	6-N-acetyl-8-methyladenine	F	O-amino acid
CH ₃	OH	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CH ₃	OH	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CH ₃	OH	Cl	O	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CH ₃	OH	Cl	O	2-N-acetylamino-8-methyladenine	F	O-amino acid
CH ₃	OH	Cl	O	2-N-acetylamino-8-methylhypoxanthine	F	O-amino acid
CH ₃	OH	Cl	O	6-Methylthymine	F	O-acyl
CH ₃	OH	Cl	O	6-Methyluracil	F	O-acyl
CH ₃	OH	Cl	O	8-Methylguanine	F	O-acyl
CH ₃	OH	Cl	O	6-Methylcytosine	F	O-acyl
CH ₃	OH	Cl	O	8-Methyladenine	F	O-acyl
CH ₃	OH	Cl	O	8-Methylhypoxanthine	F	O-acyl
CH ₃	OH	Cl	O	5-Fluoro-6-Methyluracil	F	O-acyl
CH ₃	OH	Cl	O	5-Fluoro-6-Methylcytosine	F	O-acyl
CH ₃	OH	Cl	O	2-Fluoro-8-methyladenine	F	O-acyl
CH ₃	OH	Cl	O	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CH ₃	OH	Cl	O	2-Amino-8-methyladenine	F	O-acyl
CH ₃	OH	Cl	O	2-Amino-8-methylhypoxanthine	F	O-acyl
CH ₃	OH	Cl	O	2-N-acetyl-8-methylguanine	F	O-acyl
CH ₃	OH	Cl	O	4-N-acetyl-8-methylcytosine	F	O-acyl
CH ₃	OH	Cl	O	6-N-acetyl-8-methyladenine	F	O-acyl
CH ₃	OH	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CH ₃	OH	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CH ₃	OH	Cl	O	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CH ₃	OH	Cl	O	2-N-acetylamino-8-methyladenine	F	O-acyl

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	OH	Cl	O	2-N-acetylamino-8-methylhypoxanthine	F	O-acyl
CH ₃	OH	Cl	O	6-Methylthymine	Br	O-amino acid
CH ₃	OH	Cl	O	6-Methyluracil	Br	O-amino acid
CH ₃	OH	Cl	O	8-Methylguanine	Br	O-amino acid
CH ₃	OH	Cl	O	6-Methylcytosine	Br	O-amino acid
CH ₃	OH	Cl	O	8-Methyladenine	Br	O-amino acid
CH ₃	OH	Cl	O	8-Methylhypoxanthine	Br	O-amino acid
CH ₃	OH	Cl	O	5-Fluoro-6-Methyluracil	Br	O-amino acid
CH ₃	OH	Cl	O	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CH ₃	OH	Cl	O	2-Fluoro-8-methyladenine	Br	O-amino acid
CH ₃	OH	Cl	O	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CH ₃	OH	Cl	O	2-Amino-8-methyladenine	Br	O-amino acid
CH ₃	OH	Cl	O	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CH ₃	OH	Cl	O	2-N-acetyl-8-methylguanine	Br	O-amino acid
CH ₃	OH	Cl	O	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CH ₃	OH	Cl	O	6-N-acetyl-8-methyladenine	Br	O-amino acid
CH ₃	OH	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CH ₃	OH	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CH ₃	OH	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CH ₃	OH	Cl	O	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CH ₃	OH	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-amino acid
CH ₃	OH	Cl	O	6-Methylthymine	Br	O-acyl
CH ₃	OH	Cl	O	6-Methyluracil	Br	O-acyl
CH ₃	OH	Cl	O	8-Methylguanine	Br	O-acyl
CH ₃	OH	Cl	O	6-Methylcytosine	Br	O-acyl
CH ₃	OH	Cl	O	8-Methyladenine	Br	O-acyl
CH ₃	OH	Cl	O	8-Methylhypoxanthine	Br	O-acyl
CH ₃	OH	Cl	O	5-Fluoro-6-Methyluracil	Br	O-acyl
CH ₃	OH	Cl	O	5-Fluoro-6-Methylcytosine	Br	O-acyl
CH ₃	OH	Cl	O	2-Fluoro-8-methyladenine	Br	O-acyl
CH ₃	OH	Cl	O	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CH ₃	OH	Cl	O	2-Amino-8-methyladenine	Br	O-acyl
CH ₃	OH	Cl	O	2-Amino-8-methylhypoxanthine	Br	O-acyl
CH ₃	OH	Cl	O	2-N-acetyl-8-methylguanine	Br	O-acyl
CH ₃	OH	Cl	O	4-N-acetyl-8-methylcytosine	Br	O-acyl
CH ₃	OH	Cl	O	6-N-acetyl-8-methyladenine	Br	O-acyl
CH ₃	OH	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CH ₃	OH	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CH ₃	OH	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CH ₃	OH	Cl	O	2-N-acetylamino-8-methyladenine	Br	O-acyl
CH ₃	OH	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-acyl
CH ₃	OH	Cl	O	6-Methylthymine	Cl	O-amino acid
CH ₃	OH	Cl	O	6-Methyluracil	Cl	O-amino acid
CH ₃	OH	Cl	O	8-Methylguanine	Cl	O-amino acid
CH ₃	OH	Cl	O	6-Methylcytosine	Cl	O-amino acid
CH ₃	OH	Cl	O	8-Methyladenine	Cl	O-amino acid
CH ₃	OH	Cl	O	8-Methylhypoxanthine	Cl	O-amino acid
CH ₃	OH	Cl	O	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CH ₃	OH	Cl	O	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CH ₃	OH	Cl	O	2-Fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	OH	Cl	O	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	OH	Cl	O	2-Amino-8-methyladenine	Cl	O-amino acid
CH ₃	OH	Cl	O	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	OH	Cl	O	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CH ₃	OH	Cl	O	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CH ₃	OH	Cl	O	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CH ₃	OH	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CH ₃	OH	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	OH	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CH ₃	OH	Cl	O	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CH ₃	OH	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	OH	Cl	O	6-Methylthymine	Cl	O-acyl
CH ₃	OH	Cl	O	6-Methyluracil	Cl	O-acyl
CH ₃	OH	Cl	O	8-Methylguanine	Cl	O-acyl
CH ₃	OH	Cl	O	6-Methylcytosine	Cl	O-acyl
CH ₃	OH	Cl	O	8-Methyladenine	Cl	O-acyl
CH ₃	OH	Cl	O	8-Methylhypoxanthine	Cl	O-acyl
CH ₃	OH	Cl	O	5-Fluoro-6-Methyluracil	Cl	O-acyl
CH ₃	OH	Cl	O	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CH ₃	OH	Cl	O	2-Fluoro-8-methyladenine	Cl	O-acyl
CH ₃	OH	Cl	O	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CH ₃	OH	Cl	O	2-Amino-8-methyladenine	Cl	O-acyl
CH ₃	OH	Cl	O	2-Amino-8-methylhypoxanthine	Cl	O-acyl

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	OH	Cl	O	2-N-acetyl-8-methylguanine	Cl	O-acyl
CH ₃	OH	Cl	O	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CH ₃	OH	Cl	O	6-N-acetyl-8-methyladenine	Cl	O-acyl
CH ₃	OH	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CH ₃	OH	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CH ₃	OH	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CH ₃	OH	Cl	O	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CH ₃	OH	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-acyl
CH ₃	OH	Cl	O	6-Methylthymine	H	O-amino acid
CH ₃	OH	Cl	O	6-Methyluracil	H	O-amino acid
CH ₃	OH	Cl	O	8-Methylguanine	H	O-amino acid
CH ₃	OH	Cl	O	6-Methylcytosine	H	O-amino acid
CH ₃	OH	Cl	O	8-Methyladenine	H	O-amino acid
CH ₃	OH	Cl	O	8-Methylhypoxanthine	H	O-amino acid
CH ₃	OH	Cl	O	5-Fluoro-6-Methyluracil	H	O-amino acid
CH ₃	OH	Cl	O	5-Fluoro-6-Methylcytosine	H	O-amino acid
CH ₃	OH	Cl	O	2-Fluoro-8-methyladenine	H	O-amino acid
CH ₃	OH	Cl	O	2-Fluoro-8-methylhypoxanthine	H	O-amino acid
CH ₃	OH	Cl	O	2-Amino-8-methyladenine	H	O-amino acid
CH ₃	OH	Cl	O	2-Amino-8-methylhypoxanthine	H	O-amino acid
CH ₃	OH	Cl	O	2-N-acetyl-8-methylguanine	H	O-amino acid
CH ₃	OH	Cl	O	4-N-acetyl-8-methylcytosine	H	O-amino acid
CH ₃	OH	Cl	O	6-N-acetyl-8-methyladenine	H	O-amino acid
CH ₃	OH	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-amino acid
CH ₃	OH	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-amino acid
CH ₃	OH	Cl	O	6-N-acetyl-2-amino-8-methyladenine	H	O-amino acid
CH ₃	OH	Cl	O	2-N-acetylamino-8-methyladenine	H	O-amino acid
CH ₃	OH	Cl	O	2-N-acetylamino-8-methylhypoxanthine	H	O-amino acid
CH ₃	OH	Cl	O	6-Methylthymine	H	O-acyl
CH ₃	OH	Cl	O	6-Methyluracil	H	O-acyl
CH ₃	OH	Cl	O	8-Methylguanine	H	O-acyl
CH ₃	OH	Cl	O	6-Methylcytosine	H	O-acyl
CH ₃	OH	Cl	O	8-Methyladenine	H	O-acyl
CH ₃	OH	Cl	O	8-Methylhypoxanthine	H	O-acyl
CH ₃	OH	Cl	O	5-Fluoro-6-Methyluracil	H	O-acyl
CH ₃	OH	Cl	O	5-Fluoro-6-Methylcytosine	H	O-acyl
CH ₃	OH	Cl	O	2-Fluoro-8-methyladenine	H	O-acyl
CH ₃	OH	Cl	O	2-Fluoro-8-methylhypoxanthine	H	O-acyl
CH ₃	OH	Cl	O	2-Amino-8-methyladenine	H	O-acyl
CH ₃	OH	Cl	O	2-Amino-8-methylhypoxanthine	H	O-acyl
CH ₃	OH	Cl	O	2-N-acetyl-8-methylguanine	H	O-acyl
CH ₃	OH	Cl	O	4-N-acetyl-8-methylcytosine	H	O-acyl
CH ₃	OH	Cl	O	6-N-acetyl-8-methyladenine	H	O-acyl
CH ₃	OH	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-acyl
CH ₃	OH	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-acyl
CH ₃	OH	Cl	O	6-N-acetyl-2-amino-8-methyladenine	H	O-acyl
CH ₃	OH	Cl	O	2-N-acetylamino-8-methyladenine	H	O-acyl
CH ₃	OH	Cl	O	2-N-acetylamino-8-methylhypoxanthine	H	O-acyl
CH ₃	OH	H	O	6-Methylthymine	F	O-amino acid
CH ₃	OH	H	O	6-Methyluracil	F	O-amino acid
CH ₃	OH	H	O	8-Methylguanine	F	O-amino acid
CH ₃	OH	H	O	6-Methylcytosine	F	O-amino acid
CH ₃	OH	H	O	8-Methyladenine	F	O-amino acid
CH ₃	OH	H	O	8-Methylhypoxanthine	F	O-amino acid
CH ₃	OH	H	O	5-Fluoro-6-Methyluracil	F	O-amino acid
CH ₃	OH	H	O	5-Fluoro-6-Methylcytosine	F	O-amino acid
CH ₃	OH	H	O	2-Fluoro-8-methyladenine	F	O-amino acid
CH ₃	OH	H	O	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CH ₃	OH	H	O	2-Amino-8-methyladenine	F	O-amino acid
CH ₃	OH	H	O	2-Amino-8-methylhypoxanthine	F	O-amino acid
CH ₃	OH	H	O	2-N-acetyl-8-methylguanine	F	O-amino acid
CH ₃	OH	H	O	4-N-acetyl-8-methylcytosine	F	O-amino acid
CH ₃	OH	H	O	6-N-acetyl-8-methyladenine	F	O-amino acid
CH ₃	OH	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CH ₃	OH	H	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CH ₃	OH	H	O	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CH ₃	OH	H	O	2-N-acetylamino-8-methyladenine	F	O-amino acid
CH ₃	OH	H	O	2-N-acetylamino-8-methylhypoxanthine	F	O-amino acid
CH ₃	OH	H	O	6-Methylthymine	F	O-acyl
CH ₃	OH	H	O	6-Methyluracil	F	O-acyl
CH ₃	OH	H	O	8-Methylguanine	F	O-acyl
CH ₃	OH	H	O	6-Methylcytosine	F	O-acyl
CH ₃	OH	H	O	8-Methyladenine	F	O-acyl

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	OH	H	O	8-Methylhypoxanthine	F	O-acyl
CH ₃	OH	H	O	5-Fluoro-6-Methyluracil	F	O-acyl
CH ₃	OH	H	O	5-Fluoro-6-Methylcytosine	F	O-acyl
CH ₃	OH	H	O	2-Fluoro-8-methyladenine	F	O-acyl
CH ₃	OH	H	O	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CH ₃	OH	H	O	2-Amino-8-methyladenine	F	O-acyl
CH ₃	OH	H	O	2-Amino-8-methylhypoxanthine	F	O-acyl
CH ₃	OH	H	O	2-N-acetyl-8-methylguanine	F	O-acyl
CH ₃	OH	H	O	4-N-acetyl-8-methylcytosine	F	O-acyl
CH ₃	OH	H	O	6-N-acetyl-8-methyladenine	F	O-acyl
CH ₃	OH	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CH ₃	OH	H	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CH ₃	OH	H	O	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CH ₃	OH	H	O	2-N-acetylamino-8-methyladenine	F	O-acyl
CH ₃	OH	H	O	2-N-acetylamino-8-methylhypoxanthine	F	O-acyl
CH ₃	OH	H	O	6-Methylthymine	Br	O-amino acid
CH ₃	OH	H	O	6-Methyluracil	Br	O-amino acid
CH ₃	OH	H	O	8-Methylguanine	Br	O-amino acid
CH ₃	OH	H	O	6-Methylcytosine	Br	O-amino acid
CH ₃	OH	H	O	8-Methyladenine	Br	O-amino acid
CH ₃	OH	H	O	8-Methylhypoxanthine	Br	O-amino acid
CH ₃	OH	H	O	5-Fluoro-6-Methyluracil	Br	O-amino acid
CH ₃	OH	H	O	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CH ₃	OH	H	O	2-Fluoro-8-methyladenine	Br	O-amino acid
CH ₃	OH	H	O	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CH ₃	OH	H	O	2-Amino-8-methyladenine	Br	O-amino acid
CH ₃	OH	H	O	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CH ₃	OH	H	O	2-N-acetyl-8-methylguanine	Br	O-amino acid
CH ₃	OH	H	O	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CH ₃	OH	H	O	6-N-acetyl-8-methyladenine	Br	O-amino acid
CH ₃	OH	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CH ₃	OH	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CH ₃	OH	H	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CH ₃	OH	H	O	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CH ₃	OH	H	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-amino acid
CH ₃	OH	H	O	6-Methylthymine	Br	O-acyl
CH ₃	OH	H	O	6-Methyluracil	Br	O-acyl
CH ₃	OH	H	O	8-Methylguanine	Br	O-acyl
CH ₃	OH	H	O	6-Methylcytosine	Br	O-acyl
CH ₃	OH	H	O	8-Methyladenine	Br	O-acyl
CH ₃	OH	H	O	8-Methylhypoxanthine	Br	O-acyl
CH ₃	OH	H	O	5-Fluoro-6-Methyluracil	Br	O-acyl
CH ₃	OH	H	O	5-Fluoro-6-Methylcytosine	Br	O-acyl
CH ₃	OH	H	O	2-Fluoro-8-methyladenine	Br	O-acyl
CH ₃	OH	H	O	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CH ₃	OH	H	O	2-Amino-8-methyladenine	Br	O-acyl
CH ₃	OH	H	O	2-Amino-8-methylhypoxanthine	Br	O-acyl
CH ₃	OH	H	O	2-N-acetyl-8-methylguanine	Br	O-acyl
CH ₃	OH	H	O	4-N-acetyl-8-methylcytosine	Br	O-acyl
CH ₃	OH	H	O	6-N-acetyl-8-methyladenine	Br	O-acyl
CH ₃	OH	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CH ₃	OH	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CH ₃	OH	H	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CH ₃	OH	H	O	2-N-acetylamino-8-methyladenine	Br	O-acyl
CH ₃	OH	H	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-acyl
CH ₃	OH	H	O	6-Methylthymine	Cl	O-amino acid
CH ₃	OH	H	O	6-Methyluracil	Cl	O-amino acid
CH ₃	OH	H	O	8-Methylguanine	Cl	O-amino acid
CH ₃	OH	H	O	6-Methylcytosine	Cl	O-amino acid
CH ₃	OH	H	O	8-Methyladenine	Cl	O-amino acid
CH ₃	OH	H	O	8-Methylhypoxanthine	Cl	O-amino acid
CH ₃	OH	H	O	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CH ₃	OH	H	O	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CH ₃	OH	H	O	2-Fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	OH	H	O	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	OH	H	O	2-Amino-8-methyladenine	Cl	O-amino acid
CH ₃	OH	H	O	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	OH	H	O	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CH ₃	OH	H	O	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CH ₃	OH	H	O	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CH ₃	OH	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CH ₃	OH	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	OH	H	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CH ₃	OH	H	O	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CH ₃	OH	H	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-amino acid

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	OH	H	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	OH	H	O	6-Methylthymine	Cl	O-acyl
CH ₃	OH	H	O	6-Methyluracil	Cl	O-acyl
CH ₃	OH	H	O	8-Methylguanine	Cl	O-acyl
CH ₃	OH	H	O	6-Methylcytosine	Cl	O-acyl
CH ₃	OH	H	O	8-Methyladenine	Cl	O-acyl
CH ₃	OH	H	O	8-Methylhypoxanthine	Cl	O-acyl
CH ₃	OH	H	O	5-Fluoro-6-Methyluracil	Cl	O-acyl
CH ₃	OH	H	O	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CH ₃	OH	H	O	2-Fluoro-8-methyladenine	Cl	O-acyl
CH ₃	OH	H	O	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CH ₃	OH	H	O	2-Amino-8-methyladenine	Cl	O-acyl
CH ₃	OH	H	O	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CH ₃	OH	H	O	2-N-acetyl-8-methylguanine	Cl	O-acyl
CH ₃	OH	H	O	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CH ₃	OH	H	O	6-N-acetyl-8-methyladenine	Cl	O-acyl
CH ₃	OH	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CH ₃	OH	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CH ₃	OH	H	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CH ₃	OH	H	O	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CH ₃	OH	H	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-acyl
CH ₃	OH	H	O	6-Methylthymine	H	O-amino acid
CH ₃	OH	H	O	6-Methyluracil	H	O-amino acid
CH ₃	OH	H	O	8-Methylguanine	H	O-amino acid
CH ₃	OH	H	O	6-Methylcytosine	H	O-amino acid
CH ₃	OH	H	O	8-Methyladenine	H	O-amino acid
CH ₃	OH	H	O	8-Methylhypoxanthine	H	O-amino acid
CH ₃	OH	H	O	5-Fluoro-6-Methyluracil	H	O-amino acid
CH ₃	OH	H	O	5-Fluoro-6-Methylcytosine	H	O-amino acid
CH ₃	OH	H	O	2-Fluoro-8-methyladenine	H	O-amino acid
CH ₃	OH	H	O	2-Fluoro-8-methylhypoxanthine	H	O-amino acid
CH ₃	OH	H	O	2-Amino-8-methyladenine	H	O-amino acid
CH ₃	OH	H	O	2-Amino-8-methylhypoxanthine	H	O-amino acid
CH ₃	OH	H	O	2-N-acetyl-8-methylguanine	H	O-amino acid
CH ₃	OH	H	O	4-N-acetyl-8-methylcytosine	H	O-amino acid
CH ₃	OH	H	O	6-N-acetyl-8-methyladenine	H	O-amino acid
CH ₃	OH	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-amino acid
CH ₃	OH	H	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-amino acid
CH ₃	OH	H	O	6-N-acetyl-2-amino-8-methyladenine	H	O-amino acid
CH ₃	OH	H	O	2-N-acetylamino-8-methyladenine	H	O-amino acid
CH ₃	OH	H	O	2-N-acetylamino-8-methylhypoxanthine	H	O-amino acid
CH ₃	OH	H	O	6-Methylthymine	H	O-acyl
CH ₃	OH	H	O	6-Methyluracil	H	O-acyl
CH ₃	OH	H	O	8-Methylguanine	H	O-acyl
CH ₃	OH	H	O	6-Methylcytosine	H	O-acyl
CH ₃	OH	H	O	8-Methyladenine	H	O-acyl
CH ₃	OH	H	O	8-Methylhypoxanthine	H	O-acyl
CH ₃	OH	H	O	5-Fluoro-6-Methyluracil	H	O-acyl
CH ₃	OH	H	O	5-Fluoro-6-Methylcytosine	H	O-acyl
CH ₃	OH	H	O	2-Fluoro-8-methyladenine	H	O-acyl
CH ₃	OH	H	O	2-Fluoro-8-methylhypoxanthine	H	O-acyl
CH ₃	OH	H	O	2-Amino-8-methyladenine	H	O-acyl
CH ₃	OH	H	O	2-Amino-8-methylhypoxanthine	H	O-acyl
CH ₃	OH	H	O	2-N-acetyl-8-methylguanine	H	O-acyl
CH ₃	OH	H	O	4-N-acetyl-8-methylcytosine	H	O-acyl
CH ₃	OH	H	O	6-N-acetyl-8-methyladenine	H	O-acyl
CH ₃	OH	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-acyl
CH ₃	OH	H	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-acyl
CH ₃	OH	H	O	6-N-acetyl-2-amino-8-methyladenine	H	O-acyl
CH ₃	OH	H	O	2-N-acetylamino-8-methyladenine	H	O-acyl
CH ₃	OH	H	O	2-N-acetylamino-8-methylhypoxanthine	H	O-acyl
CH ₃	H	F	O	6-Methylthymine	F	O-amino acid
CH ₃	H	F	O	6-Methyluracil	F	O-amino acid
CH ₃	H	F	O	8-Methylguanine	F	O-amino acid
CH ₃	H	F	O	6-Methylcytosine	F	O-amino acid
CH ₃	H	F	O	8-Methyladenine	F	O-amino acid
CH ₃	H	F	O	8-Methylhypoxanthine	F	O-amino acid
CH ₃	H	F	O	5-Fluoro-6-Methyluracil	F	O-amino acid
CH ₃	H	F	O	5-Fluoro-6-Methylcytosine	F	O-amino acid
CH ₃	H	F	O	2-Fluoro-8-methyladenine	F	O-amino acid
CH ₃	H	F	O	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CH ₃	H	F	O	2-Amino-8-methyladenine	F	O-amino acid
CH ₃	H	F	O	2-Amino-8-methylhypoxanthine	F	O-amino acid

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	H	F	O	2-N-acetyl-8-methylguanine	F	O-amino acid
CH ₃	H	F	O	4-N-acetyl-8-methylcytosine	F	O-amino acid
CH ₃	H	F	O	6-N-acetyl-8-methyladenine	F	O-amino acid
CH ₃	H	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CH ₃	H	F	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CH ₃	H	F	O	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CH ₃	H	F	O	2-N-acetylamino-8-methyladenine	F	O-amino acid
CH ₃	H	F	O	2-N-acetylamino-8-methylhypoxanthine	F	O-amino acid
CH ₃	H	F	O	6-Methylthymine	F	O-acyl
CH ₃	H	F	O	6-Methyluracil	F	O-acyl
CH ₃	H	F	O	8-Methylguanine	F	O-acyl
CH ₃	H	F	O	6-Methylcytosine	F	O-acyl
CH ₃	H	F	O	8-Methyladenine	F	O-acyl
CH ₃	H	F	O	8-Methylhypoxanthine	F	O-acyl
CH ₃	H	F	O	5-Fluoro-6-Methyluracil	F	O-acyl
CH ₃	H	F	O	5-Fluoro-6-Methylcytosine	F	O-acyl
CH ₃	H	F	O	2-Fluoro-8-methyladenine	F	O-acyl
CH ₃	H	F	O	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CH ₃	H	F	O	2-Amino-8-methyladenine	F	O-acyl
CH ₃	H	F	O	2-Amino-8-methylhypoxanthine	F	O-acyl
CH ₃	H	F	O	2-N-acetyl-8-methylguanine	F	O-acyl
CH ₃	H	F	O	4-N-acetyl-8-methylcytosine	F	O-acyl
CH ₃	H	F	O	6-N-acetyl-8-methyladenine	F	O-acyl
CH ₃	H	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CH ₃	H	F	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CH ₃	H	F	O	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CH ₃	H	F	O	2-N-acetylamino-8-methyladenine	F	O-acyl
CH ₃	H	F	O	2-N-acetylamino-8-methylhypoxanthine	F	O-acyl
CH ₃	H	F	O	6-Methylthymine	Br	O-amino acid
CH ₃	H	F	O	6-Methyluracil	Br	O-amino acid
CH ₃	H	F	O	8-Methylguanine	Br	O-amino acid
CH ₃	H	F	O	6-Methylcytosine	Br	O-amino acid
CH ₃	H	F	O	8-Methyladenine	Br	O-amino acid
CH ₃	H	F	O	8-Methylhypoxanthine	Br	O-amino acid
CH ₃	H	F	O	5-Fluoro-6-Methyluracil	Br	O-amino acid
CH ₃	H	F	O	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CH ₃	H	F	O	2-Fluoro-8-methyladenine	Br	O-amino acid
CH ₃	H	F	O	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CH ₃	H	F	O	2-Amino-8-methyladenine	Br	O-amino acid
CH ₃	H	F	O	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CH ₃	H	F	O	2-N-acetyl-8-methylguanine	Br	O-amino acid
CH ₃	H	F	O	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CH ₃	H	F	O	6-N-acetyl-8-methyladenine	Br	O-amino acid
CH ₃	H	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CH ₃	H	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CH ₃	H	F	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CH ₃	H	F	O	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CH ₃	H	F	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-amino acid
CH ₃	H	F	O	6-Methylthymine	Br	O-acyl
CH ₃	H	F	O	6-Methyluracil	Br	O-acyl
CH ₃	H	F	O	8-Methylguanine	Br	O-acyl
CH ₃	H	F	O	6-Methylcytosine	Br	O-acyl
CH ₃	H	F	O	8-Methyladenine	Br	O-acyl
CH ₃	H	F	O	8-Methylhypoxanthine	Br	O-acyl
CH ₃	H	F	O	5-Fluoro-6-Methyluracil	Br	O-acyl
CH ₃	H	F	O	5-Fluoro-6-Methylcytosine	Br	O-acyl
CH ₃	H	F	O	2-Fluoro-8-methyladenine	Br	O-acyl
CH ₃	H	F	O	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CH ₃	H	F	O	2-Amino-8-methyladenine	Br	O-acyl
CH ₃	H	F	O	2-Amino-8-methylhypoxanthine	Br	O-acyl
CH ₃	H	F	O	2-N-acetyl-8-methylguanine	Br	O-acyl
CH ₃	H	F	O	4-N-acetyl-8-methylcytosine	Br	O-acyl
CH ₃	H	F	O	6-N-acetyl-8-methyladenine	Br	O-acyl
CH ₃	H	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CH ₃	H	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CH ₃	H	F	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CH ₃	H	F	O	2-N-acetylamino-8-methyladenine	Br	O-acyl
CH ₃	H	F	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-acyl
CH ₃	H	F	O	6-Methylthymine	Cl	O-amino acid
CH ₃	H	F	O	6-Methyluracil	Cl	O-amino acid
CH ₃	H	F	O	8-Methylguanine	Cl	O-amino acid
CH ₃	H	F	O	6-Methylcytosine	Cl	O-amino acid
CH ₃	H	F	O	8-Methyladenine	Cl	O-amino acid

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	H	F	O	8-Methylhypoxanthine	Cl	O-amino acid
CH ₃	H	F	O	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CH ₃	H	F	O	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CH ₃	H	F	O	2-Fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	H	F	O	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	H	F	O	2-Amino-8-methyladenine	Cl	O-amino acid
CH ₃	H	F	O	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	H	F	O	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CH ₃	H	F	O	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CH ₃	H	F	O	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CH ₃	H	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CH ₃	H	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	H	F	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CH ₃	H	F	O	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CH ₃	H	F	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	H	F	O	6-Methylthymine	Cl	O-acyl
CH ₃	H	F	O	6-Methyluracil	Cl	O-acyl
CH ₃	H	F	O	8-Methylguanine	Cl	O-acyl
CH ₃	H	F	O	6-Methylcytosine	Cl	O-acyl
CH ₃	H	F	O	8-Methyladenine	Cl	O-acyl
CH ₃	H	F	O	8-Methylhypoxanthine	Cl	O-acyl
CH ₃	H	F	O	5-Fluoro-6-Methyluracil	Cl	O-acyl
CH ₃	H	F	O	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CH ₃	H	F	O	2-Fluoro-8-methyladenine	Cl	O-acyl
CH ₃	H	F	O	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CH ₃	H	F	O	2-Amino-8-methyladenine	Cl	O-acyl
CH ₃	H	F	O	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CH ₃	H	F	O	2-N-acetyl-8-methylguanine	Cl	O-acyl
CH ₃	H	F	O	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CH ₃	H	F	O	6-N-acetyl-8-methyladenine	Cl	O-acyl
CH ₃	H	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CH ₃	H	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CH ₃	H	F	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CH ₃	H	F	O	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CH ₃	H	F	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-acyl
CH ₃	H	F	O	6-Methylthymine	H	O-amino acid
CH ₃	H	F	O	6-Methyluracil	H	O-amino acid
CH ₃	H	F	O	8-Methylguanine	H	O-amino acid
CH ₃	H	F	O	6-Methylcytosine	H	O-amino acid
CH ₃	H	F	O	8-Methyladenine	H	O-amino acid
CH ₃	H	F	O	8-Methylhypoxanthine	H	O-amino acid
CH ₃	H	F	O	5-Fluoro-6-Methyluracil	H	O-amino acid
CH ₃	H	F	O	5-Fluoro-6-Methylcytosine	H	O-amino acid
CH ₃	H	F	O	2-Fluoro-8-methyladenine	H	O-amino acid
CH ₃	H	F	O	2-Fluoro-8-methylhypoxanthine	H	O-amino acid
CH ₃	H	F	O	2-Amino-8-methyladenine	H	O-amino acid
CH ₃	H	F	O	2-Amino-8-methylhypoxanthine	H	O-amino acid
CH ₃	H	F	O	2-N-acetyl-8-methylguanine	H	O-amino acid
CH ₃	H	F	O	4-N-acetyl-8-methylcytosine	H	O-amino acid
CH ₃	H	F	O	6-N-acetyl-8-methyladenine	H	O-amino acid
CH ₃	H	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-amino acid
CH ₃	H	F	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-amino acid
CH ₃	H	F	O	6-N-acetyl-2-amino-8-methyladenine	H	O-amino acid
CH ₃	H	F	O	2-N-acetylamino-8-methyladenine	H	O-amino acid
CH ₃	H	F	O	2-N-acetylamino-8-methylhypoxanthine	H	O-amino acid
CH ₃	H	F	O	6-Methylthymine	H	O-acyl
CH ₃	H	F	O	6-Methyluracil	H	O-acyl
CH ₃	H	F	O	8-Methylguanine	H	O-acyl
CH ₃	H	F	O	6-Methylcytosine	H	O-acyl
CH ₃	H	F	O	8-Methyladenine	H	O-acyl
CH ₃	H	F	O	8-Methylhypoxanthine	H	O-acyl
CH ₃	H	F	O	5-Fluoro-6-Methyluracil	H	O-acyl
CH ₃	H	F	O	5-Fluoro-6-Methylcytosine	H	O-acyl
CH ₃	H	F	O	2-Fluoro-8-methyladenine	H	O-acyl
CH ₃	H	F	O	2-Fluoro-8-methylhypoxanthine	H	O-acyl
CH ₃	H	F	O	2-Amino-8-methyladenine	H	O-acyl
CH ₃	H	F	O	2-Amino-8-methylhypoxanthine	H	O-acyl
CH ₃	H	F	O	2-N-acetyl-8-methylguanine	H	O-acyl
CH ₃	H	F	O	4-N-acetyl-8-methylcytosine	H	O-acyl
CH ₃	H	F	O	6-N-acetyl-8-methyladenine	H	O-acyl
CH ₃	H	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-acyl
CH ₃	H	F	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-acyl
CH ₃	H	F	O	6-N-acetyl-2-amino-8-methyladenine	H	O-acyl
CH ₃	H	F	O	2-N-acetylamino-8-methyladenine	H	O-acyl
CH ₃	H	F	O	2-N-acetylamino-8-methylhypoxanthine	H	O-acyl

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	H	F	O	2-N-acetylamino-8-methylhypoxanthine	H	O-acyl
CH ₃	H	Br	O	6-Methylthymine	F	O-amino acid
CH ₃	H	Br	O	6-Methyluracil	F	O-amino acid
CH ₃	H	Br	O	8-Methylguanine	F	O-amino acid
CH ₃	H	Br	O	6-Methylcytosine	F	O-amino acid
CH ₃	H	Br	O	8-Methyladenine	F	O-amino acid
CH ₃	H	Br	O	8-Methylhypoxanthine	F	O-amino acid
CH ₃	H	Br	O	5-Fluoro-6-Methyluracil	F	O-amino acid
CH ₃	H	Br	O	5-Fluoro-6-Methylcytosine	F	O-amino acid
CH ₃	H	Br	O	2-Fluoro-8-methyladenine	F	O-amino acid
CH ₃	H	Br	O	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CH ₃	H	Br	O	2-Amino-8-methyladenine	F	O-amino acid
CH ₃	H	Br	O	2-Amino-8-methylhypoxanthine	F	O-amino acid
CH ₃	H	Br	O	2-N-acetyl-8-methylguanine	F	O-amino acid
CH ₃	H	Br	O	4-N-acetyl-8-methylcytosine	F	O-amino acid
CH ₃	H	Br	O	6-N-acetyl-8-methyladenine	F	O-amino acid
CH ₃	H	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CH ₃	H	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CH ₃	H	Br	O	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CH ₃	H	Br	O	2-N-acetylamino-8-methyladenine	F	O-amino acid
CH ₃	H	Br	O	2-N-acetylamino-8-methylhypoxanthine	F	O-amino acid
CH ₃	H	Br	O	6-Methylthymine	F	O-acyl
CH ₃	H	Br	O	6-Methyluracil	F	O-acyl
CH ₃	H	Br	O	8-Methylguanine	F	O-acyl
CH ₃	H	Br	O	6-Methylcytosine	F	O-acyl
CH ₃	H	Br	O	8-Methyladenine	F	O-acyl
CH ₃	H	Br	O	8-Methylhypoxanthine	F	O-acyl
CH ₃	H	Br	O	5-Fluoro-6-Methyluracil	F	O-acyl
CH ₃	H	Br	O	5-Fluoro-6-Methylcytosine	F	O-acyl
CH ₃	H	Br	O	2-Fluoro-8-methyladenine	F	O-acyl
CH ₃	H	Br	O	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CH ₃	H	Br	O	2-Amino-8-methyladenine	F	O-acyl
CH ₃	H	Br	O	2-Amino-8-methylhypoxanthine	F	O-acyl
CH ₃	H	Br	O	2-N-acetyl-8-methylguanine	F	O-acyl
CH ₃	H	Br	O	4-N-acetyl-8-methylcytosine	F	O-acyl
CH ₃	H	Br	O	6-N-acetyl-8-methyladenine	F	O-acyl
CH ₃	H	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CH ₃	H	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CH ₃	H	Br	O	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CH ₃	H	Br	O	2-N-acetylamino-8-methyladenine	F	O-acyl
CH ₃	H	Br	O	2-N-acetylamino-8-methylhypoxanthine	F	O-acyl
CH ₃	H	Br	O	6-Methylthymine	Br	O-amino acid
CH ₃	H	Br	O	6-Methyluracil	Br	O-amino acid
CH ₃	H	Br	O	8-Methylguanine	Br	O-amino acid
CH ₃	H	Br	O	6-Methylcytosine	Br	O-amino acid
CH ₃	H	Br	O	8-Methyladenine	Br	O-amino acid
CH ₃	H	Br	O	8-Methylhypoxanthine	Br	O-amino acid
CH ₃	H	Br	O	5-Fluoro-6-Methyluracil	Br	O-amino acid
CH ₃	H	Br	O	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CH ₃	H	Br	O	2-Fluoro-8-methyladenine	Br	O-amino acid
CH ₃	H	Br	O	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CH ₃	H	Br	O	2-Amino-8-methyladenine	Br	O-amino acid
CH ₃	H	Br	O	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CH ₃	H	Br	O	2-N-acetyl-8-methylguanine	Br	O-amino acid
CH ₃	H	Br	O	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CH ₃	H	Br	O	6-N-acetyl-8-methyladenine	Br	O-amino acid
CH ₃	H	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CH ₃	H	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CH ₃	H	Br	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CH ₃	H	Br	O	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CH ₃	H	Br	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-amino acid
CH ₃	H	Br	O	6-Methylthymine	Br	O-acyl
CH ₃	H	Br	O	6-Methyluracil	Br	O-acyl
CH ₃	H	Br	O	8-Methylguanine	Br	O-acyl
CH ₃	H	Br	O	6-Methylcytosine	Br	O-acyl
CH ₃	H	Br	O	8-Methyladenine	Br	O-acyl
CH ₃	H	Br	O	8-Methylhypoxanthine	Br	O-acyl
CH ₃	H	Br	O	5-Fluoro-6-Methyluracil	Br	O-acyl
CH ₃	H	Br	O	5-Fluoro-6-Methylcytosine	Br	O-acyl
CH ₃	H	Br	O	2-Fluoro-8-methyladenine	Br	O-acyl
CH ₃	H	Br	O	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CH ₃	H	Br	O	2-Amino-8-methyladenine	Br	O-acyl
CH ₃	H	Br	O	2-Amino-8-methylhypoxanthine	Br	O-acyl

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	H	Br	O	2-N-acetyl-8-methylguanine	Br	O-acyl
CH ₃	H	Br	O	4-N-acetyl-8-methylcytosine	Br	O-acyl
CH ₃	H	Br	O	6-N-acetyl-8-methyladenine	Br	O-acyl
CH ₃	H	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CH ₃	H	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CH ₃	H	Br	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CH ₃	H	Br	O	2-N-acetylamino-8-methyladenine	Br	O-acyl
CH ₃	H	Br	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-acyl
CH ₃	H	Br	O	6-Methylthymine	Cl	O-amino acid
CH ₃	H	Br	O	6-Methyluracil	Cl	O-amino acid
CH ₃	H	Br	O	8-Methylguanine	Cl	O-amino acid
CH ₃	H	Br	O	6-Methylcytosine	Cl	O-amino acid
CH ₃	H	Br	O	8-Methyladenine	Cl	O-amino acid
CH ₃	H	Br	O	8-Methylhypoxanthine	Cl	O-amino acid
CH ₃	H	Br	O	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CH ₃	H	Br	O	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CH ₃	H	Br	O	2-Fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	H	Br	O	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	H	Br	O	2-Amino-8-methyladenine	Cl	O-amino acid
CH ₃	H	Br	O	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	H	Br	O	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CH ₃	H	Br	O	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CH ₃	H	Br	O	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CH ₃	H	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CH ₃	H	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	H	Br	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CH ₃	H	Br	O	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CH ₃	H	Br	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	H	Br	O	6-Methylthymine	Cl	O-acyl
CH ₃	H	Br	O	6-Methyluracil	Cl	O-acyl
CH ₃	H	Br	O	8-Methylguanine	Cl	O-acyl
CH ₃	H	Br	O	6-Methylcytosine	Cl	O-acyl
CH ₃	H	Br	O	8-Methyladenine	Cl	O-acyl
CH ₃	H	Br	O	8-Methylhypoxanthine	Cl	O-acyl
CH ₃	H	Br	O	5-Fluoro-6-Methyluracil	Cl	O-acyl
CH ₃	H	Br	O	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CH ₃	H	Br	O	2-Fluoro-8-methyladenine	Cl	O-acyl
CH ₃	H	Br	O	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CH ₃	H	Br	O	2-Amino-8-methyladenine	Cl	O-acyl
CH ₃	H	Br	O	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CH ₃	H	Br	O	2-N-acetyl-8-methylguanine	Cl	O-acyl
CH ₃	H	Br	O	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CH ₃	H	Br	O	6-N-acetyl-8-methyladenine	Cl	O-acyl
CH ₃	H	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CH ₃	H	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CH ₃	H	Br	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CH ₃	H	Br	O	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CH ₃	H	Br	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-acyl
CH ₃	H	Br	O	6-Methylthymine	H	O-amino acid
CH ₃	H	Br	O	6-Methyluracil	H	O-amino acid
CH ₃	H	Br	O	8-Methylguanine	H	O-amino acid
CH ₃	H	Br	O	6-Methylcytosine	H	O-amino acid
CH ₃	H	Br	O	8-Methyladenine	H	O-amino acid
CH ₃	H	Br	O	8-Methylhypoxanthine	H	O-amino acid
CH ₃	H	Br	O	5-Fluoro-6-Methyluracil	H	O-amino acid
CH ₃	H	Br	O	5-Fluoro-6-Methylcytosine	H	O-amino acid
CH ₃	H	Br	O	2-Fluoro-8-methyladenine	H	O-amino acid
CH ₃	H	Br	O	2-Fluoro-8-methylhypoxanthine	H	O-amino acid
CH ₃	H	Br	O	2-Amino-8-methyladenine	H	O-amino acid
CH ₃	H	Br	O	2-Amino-8-methylhypoxanthine	H	O-amino acid
CH ₃	H	Br	O	2-N-acetyl-8-methylguanine	H	O-amino acid
CH ₃	H	Br	O	4-N-acetyl-8-methylcytosine	H	O-amino acid
CH ₃	H	Br	O	6-N-acetyl-8-methyladenine	H	O-amino acid
CH ₃	H	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-amino acid
CH ₃	H	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-amino acid
CH ₃	H	Br	O	6-N-acetyl-2-amino-8-methyladenine	H	O-amino acid
CH ₃	H	Br	O	2-N-acetylamino-8-methyladenine	H	O-amino acid
CH ₃	H	Br	O	2-N-acetylamino-8-methylhypoxanthine	H	O-amino acid
CH ₃	H	Br	O	6-Methylthymine	H	O-acyl
CH ₃	H	Br	O	6-Methyluracil	H	O-acyl
CH ₃	H	Br	O	8-Methylguanine	H	O-acyl
CH ₃	H	Br	O	6-Methylcytosine	H	O-acyl
CH ₃	H	Br	O	8-Methyladenine	H	O-acyl

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	H	Br	O	8-Methylhypoxanthine	H	O-acyl
CH ₃	H	Br	O	5-Fluoro-6-Methyluracil	H	O-acyl
CH ₃	H	Br	O	5-Fluoro-6-Methylcytosine	H	O-acyl
CH ₃	H	Br	O	2-Fluoro-8-methyladenine	H	O-acyl
CH ₃	H	Br	O	2-Fluoro-8-methylhypoxanthine	H	O-acyl
CH ₃	H	Br	O	2-Amino-8-methyladenine	H	O-acyl
CH ₃	H	Br	O	2-Amino-8-methylhypoxanthine	H	O-acyl
CH ₃	H	Br	O	2-N-acetyl-8-methylguanine	H	O-acyl
CH ₃	H	Br	O	4-N-acetyl-8-methylcytosine	H	O-acyl
CH ₃	H	Br	O	6-N-acetyl-8-methyladenine	H	O-acyl
CH ₃	H	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-acyl
CH ₃	H	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-acyl
CH ₃	H	Br	O	6-N-acetyl-2-amino-8-methyladenine	H	O-acyl
CH ₃	H	Br	O	2-N-acetylamino-8-methyladenine	H	O-acyl
CH ₃	H	Br	O	2-N-acetylamino-8-methylhypoxanthine	H	O-acyl
CH ₃	H	Cl	O	6-Methylthymine	F	O-amino acid
CH ₃	H	Cl	O	6-Methyluracil	F	O-amino acid
CH ₃	H	Cl	O	8-Methylguanine	F	O-amino acid
CH ₃	H	Cl	O	6-Methylcytosine	F	O-amino acid
CH ₃	H	Cl	O	8-Methyladenine	F	O-amino acid
CH ₃	H	Cl	O	8-Methylhypoxanthine	F	O-amino acid
CH ₃	H	Cl	O	5-Fluoro-6-Methyluracil	F	O-amino acid
CH ₃	H	Cl	O	5-Fluoro-6-Methylcytosine	F	O-amino acid
CH ₃	H	Cl	O	2-Fluoro-8-methyladenine	F	O-amino acid
CH ₃	H	Cl	O	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CH ₃	H	Cl	O	2-Amino-8-methyladenine	F	O-amino acid
CH ₃	H	Cl	O	2-Amino-8-methylhypoxanthine	F	O-amino acid
CH ₃	H	Cl	O	2-N-acetyl-8-methylguanine	F	O-amino acid
CH ₃	H	Cl	O	4-N-acetyl-8-methylcytosine	F	O-amino acid
CH ₃	H	Cl	O	6-N-acetyl-8-methyladenine	F	O-amino acid
CH ₃	H	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CH ₃	H	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CH ₃	H	Cl	O	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CH ₃	H	Cl	O	2-N-acetylamino-8-methyladenine	F	O-amino acid
CH ₃	H	Cl	O	2-N-acetylamino-8-methylhypoxanthine	F	O-amino acid
CH ₃	H	Cl	O	6-Methylthymine	F	O-acyl
CH ₃	H	Cl	O	6-Methyluracil	F	O-acyl
CH ₃	H	Cl	O	8-Methylguanine	F	O-acyl
CH ₃	H	Cl	O	6-Methylcytosine	F	O-acyl
CH ₃	H	Cl	O	8-Methyladenine	F	O-acyl
CH ₃	H	Cl	O	8-Methylhypoxanthine	F	O-acyl
CH ₃	H	Cl	O	5-Fluoro-6-Methyluracil	F	O-acyl
CH ₃	H	Cl	O	5-Fluoro-6-Methylcytosine	F	O-acyl
CH ₃	H	Cl	O	2-Fluoro-8-methyladenine	F	O-acyl
CH ₃	H	Cl	O	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CH ₃	H	Cl	O	2-Amino-8-methyladenine	F	O-acyl
CH ₃	H	Cl	O	2-Amino-8-methylhypoxanthine	F	O-acyl
CH ₃	H	Cl	O	2-N-acetyl-8-methylguanine	F	O-acyl
CH ₃	H	Cl	O	4-N-acetyl-8-methylcytosine	F	O-acyl
CH ₃	H	Cl	O	6-N-acetyl-8-methyladenine	F	O-acyl
CH ₃	H	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CH ₃	H	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CH ₃	H	Cl	O	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CH ₃	H	Cl	O	2-N-acetylamino-8-methyladenine	F	O-acyl
CH ₃	H	Cl	O	2-N-acetylamino-8-methylhypoxanthine	F	O-acyl
CH ₃	H	Cl	O	6-Methylthymine	Br	O-amino acid
CH ₃	H	Cl	O	6-Methyluracil	Br	O-amino acid
CH ₃	H	Cl	O	8-Methylguanine	Br	O-amino acid
CH ₃	H	Cl	O	6-Methylcytosine	Br	O-amino acid
CH ₃	H	Cl	O	8-Methyladenine	Br	O-amino acid
CH ₃	H	Cl	O	8-Methylhypoxanthine	Br	O-amino acid
CH ₃	H	Cl	O	5-Fluoro-6-Methyluracil	Br	O-amino acid
CH ₃	H	Cl	O	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CH ₃	H	Cl	O	2-Fluoro-8-methyladenine	Br	O-amino acid
CH ₃	H	Cl	O	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CH ₃	H	Cl	O	2-Amino-8-methyladenine	Br	O-amino acid
CH ₃	H	Cl	O	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CH ₃	H	Cl	O	2-N-acetyl-8-methylguanine	Br	O-amino acid
CH ₃	H	Cl	O	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CH ₃	H	Cl	O	6-N-acetyl-8-methyladenine	Br	O-amino acid
CH ₃	H	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CH ₃	H	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CH ₃	H	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CH ₃	H	Cl	O	2-N-acetylamino-8-methyladenine	Br	O-amino acid

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	H	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-amino acid
CH ₃	H	Cl	O	6-Methylthymine	Br	O-acyl
CH ₃	H	Cl	O	6-Methyluracil	Br	O-acyl
CH ₃	H	Cl	O	8-Methylguanine	Br	O-acyl
CH ₃	H	Cl	O	6-Methylcytosine	Br	O-acyl
CH ₃	H	Cl	O	8-Methyladenine	Br	O-acyl
CH ₃	H	Cl	O	8-Methylhypoxanthine	Br	O-acyl
CH ₃	H	Cl	O	5-Fluoro-6-Methyluracil	Br	O-acyl
CH ₃	H	Cl	O	5-Fluoro-6-Methylcytosine	Br	O-acyl
CH ₃	H	Cl	O	2-Fluoro-8-methyladenine	Br	O-acyl
CH ₃	H	Cl	O	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CH ₃	H	Cl	O	2-Amino-8-methyladenine	Br	O-acyl
CH ₃	H	Cl	O	2-Amino-8-methylhypoxanthine	Br	O-acyl
CH ₃	H	Cl	O	2-N-acetyl-8-methylguanine	Br	O-acyl
CH ₃	H	Cl	O	4-N-acetyl-8-methylcytosine	Br	O-acyl
CH ₃	H	Cl	O	6-N-acetyl-8-methyladenine	Br	O-acyl
CH ₃	H	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CH ₃	H	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CH ₃	H	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CH ₃	H	Cl	O	2-N-acetylamino-8-methyladenine	Br	O-acyl
CH ₃	H	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-acyl
CH ₃	H	Cl	O	6-Methylthymine	Cl	O-amino acid
CH ₃	H	Cl	O	6-Methyluracil	Cl	O-amino acid
CH ₃	H	Cl	O	8-Methylguanine	Cl	O-amino acid
CH ₃	H	Cl	O	6-Methylcytosine	Cl	O-amino acid
CH ₃	H	Cl	O	8-Methyladenine	Cl	O-amino acid
CH ₃	H	Cl	O	8-Methylhypoxanthine	Cl	O-amino acid
CH ₃	H	Cl	O	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CH ₃	H	Cl	O	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CH ₃	H	Cl	O	2-Fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	H	Cl	O	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	H	Cl	O	2-Amino-8-methyladenine	Cl	O-amino acid
CH ₃	H	Cl	O	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	H	Cl	O	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CH ₃	H	Cl	O	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CH ₃	H	Cl	O	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CH ₃	H	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CH ₃	H	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	H	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CH ₃	H	Cl	O	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CH ₃	H	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	H	Cl	O	6-Methylthymine	Cl	O-acyl
CH ₃	H	Cl	O	6-Methyluracil	Cl	O-acyl
CH ₃	H	Cl	O	8-Methylguanine	Cl	O-acyl
CH ₃	H	Cl	O	6-Methylcytosine	Cl	O-acyl
CH ₃	H	Cl	O	8-Methyladenine	Cl	O-acyl
CH ₃	H	Cl	O	8-Methylhypoxanthine	Cl	O-acyl
CH ₃	H	Cl	O	5-Fluoro-6-Methyluracil	Cl	O-acyl
CH ₃	H	Cl	O	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CH ₃	H	Cl	O	2-Fluoro-8-methyladenine	Cl	O-acyl
CH ₃	H	Cl	O	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CH ₃	H	Cl	O	2-Amino-8-methyladenine	Cl	O-acyl
CH ₃	H	Cl	O	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CH ₃	H	Cl	O	2-N-acetyl-8-methylguanine	Cl	O-acyl
CH ₃	H	Cl	O	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CH ₃	H	Cl	O	6-N-acetyl-8-methyladenine	Cl	O-acyl
CH ₃	H	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CH ₃	H	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CH ₃	H	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CH ₃	H	Cl	O	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CH ₃	H	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-acyl
CH ₃	H	Cl	O	6-Methylthymine	H	O-amino acid
CH ₃	H	Cl	O	6-Methyluracil	H	O-amino acid
CH ₃	H	Cl	O	8-Methylguanine	H	O-amino acid
CH ₃	H	Cl	O	6-Methylcytosine	H	O-amino acid
CH ₃	H	Cl	O	8-Methyladenine	H	O-amino acid
CH ₃	H	Cl	O	8-Methylhypoxanthine	H	O-amino acid
CH ₃	H	Cl	O	5-Fluoro-6-Methyluracil	H	O-amino acid
CH ₃	H	Cl	O	5-Fluoro-6-Methylcytosine	H	O-amino acid
CH ₃	H	Cl	O	2-Fluoro-8-methyladenine	H	O-amino acid
CH ₃	H	Cl	O	2-Fluoro-8-methylhypoxanthine	H	O-amino acid
CH ₃	H	Cl	O	2-Amino-8-methyladenine	H	O-amino acid
CH ₃	H	Cl	O	2-Amino-8-methylhypoxanthine	H	O-amino acid

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	H	Cl	O	2-N-acetyl-8-methylguanine	H	O-amino acid
CH ₃	H	Cl	O	4-N-acetyl-8-methylcytosine	H	O-amino acid
CH ₃	H	Cl	O	6-N-acetyl-8-methyladenine	H	O-amino acid
CH ₃	H	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-amino acid
CH ₃	H	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-amino acid
CH ₃	H	Cl	O	6-N-acetyl-2-amino-8-methyladenine	H	O-amino acid
CH ₃	H	Cl	O	2-N-acetylamino-8-methyladenine	H	O-amino acid
CH ₃	H	Cl	O	2-N-acetylamino-8-methylhypoxanthine		
CH ₃	H	Cl	O	6-Methylthymine	H	O-acyl
CH ₃	H	Cl	O	6-Methyluracil	H	O-acyl
CH ₃	H	Cl	O	8-Methylguanine	H	O-acyl
CH ₃	H	Cl	O	6-Methylcytosine	H	O-acyl
CH ₃	H	Cl	O	8-Methyladenine	H	O-acyl
CH ₃	H	Cl	O	8-Methylhypoxanthine	H	O-acyl
CH ₃	H	Cl	O	5-Fluoro-6-Methyluracil	H	O-acyl
CH ₃	H	Cl	O	5-Fluoro-6-Methylcytosine	H	O-acyl
CH ₃	H	Cl	O	2-Fluoro-8-methyladenine	H	O-acyl
CH ₃	H	Cl	O	2-Fluoro-8-methylhypoxanthine	H	O-acyl
CH ₃	H	Cl	O	2-Amino-8-methyladenine	H	O-acyl
CH ₃	H	Cl	O	2-Amino-8-methylhypoxanthine	H	O-acyl
CH ₃	H	Cl	O	2-N-acetyl-8-methylguanine	H	O-acyl
CH ₃	H	Cl	O	4-N-acetyl-8-methylcytosine	H	O-acyl
CH ₃	H	Cl	O	6-N-acetyl-8-methyladenine	H	O-acyl
CH ₃	H	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-acyl
CH ₃	H	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-acyl
CH ₃	H	Cl	O	6-N-acetyl-2-amino-8-methyladenine	H	O-acyl
CH ₃	H	Cl	O	2-N-acetylamino-8-methyladenine	H	O-acyl
CH ₃	H	Cl	O	2-N-acetylamino-8-methylhypoxanthine	H	O-acyl
CH ₃	H	H	O	6-Methylthymine	F	O-amino acid
CH ₃	H	H	O	6-Methyluracil	F	O-amino acid
CH ₃	H	H	O	8-Methylguanine	F	O-amino acid
CH ₃	H	H	O	6-Methylcytosine	F	O-amino acid
CH ₃	H	H	O	8-Methyladenine	F	O-amino acid
CH ₃	H	H	O	8-Methylhypoxanthine	F	O-amino acid
CH ₃	H	H	O	5-Fluoro-6-Methyluracil	F	O-amino acid
CH ₃	H	H	O	5-Fluoro-6-Methylcytosine	F	O-amino acid
CH ₃	H	H	O	2-Fluoro-8-methyladenine	F	O-amino acid
CH ₃	H	H	O	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CH ₃	H	H	O	2-Amino-8-methyladenine	F	O-amino acid
CH ₃	H	H	O	2-Amino-8-methylhypoxanthine	F	O-amino acid
CH ₃	H	H	O	2-N-acetyl-8-methylguanine	F	O-amino acid
CH ₃	H	H	O	4-N-acetyl-8-methylcytosine	F	O-amino acid
CH ₃	H	H	O	6-N-acetyl-8-methyladenine	F	O-amino acid
CH ₃	H	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CH ₃	H	H	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CH ₃	H	H	O	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CH ₃	H	H	O	2-N-acetylamino-8-methyladenine	F	O-amino acid
CH ₃	H	H	O	2-N-acetylamino-8-methylhypoxanthine	F	O-amino acid
CH ₃	H	H	O	6-Methylthymine	F	O-acyl
CH ₃	H	H	O	6-Methyluracil	F	O-acyl
CH ₃	H	H	O	8-Methylguanine	F	O-acyl
CH ₃	H	H	O	6-Methylcytosine	F	O-acyl
CH ₃	H	H	O	8-Methyladenine	F	O-acyl
CH ₃	H	H	O	8-Methylhypoxanthine	F	O-acyl
CH ₃	H	H	O	5-Fluoro-6-Methyluracil	F	O-acyl
CH ₃	H	H	O	5-Fluoro-6-Methylcytosine	F	O-acyl
CH ₃	H	H	O	2-Fluoro-8-methyladenine	F	O-acyl
CH ₃	H	H	O	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CH ₃	H	H	O	2-Amino-8-methyladenine	F	O-acyl
CH ₃	H	H	O	2-Amino-8-methylhypoxanthine	F	O-acyl
CH ₃	H	H	O	2-N-acetyl-8-methylguanine	F	O-acyl
CH ₃	H	H	O	4-N-acetyl-8-methylcytosine	F	O-acyl
CH ₃	H	H	O	6-N-acetyl-8-methyladenine	F	O-acyl
CH ₃	H	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CH ₃	H	H	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CH ₃	H	H	O	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CH ₃	H	H	O	2-N-acetylamino-8-methyladenine	F	O-acyl
CH ₃	H	H	O	2-N-acetylamino-8-methylhypoxanthine	F	O-acyl
CH ₃	H	H	O	6-Methylthymine	Br	O-amino acid
CH ₃	H	H	O	6-Methyluracil	Br	O-amino acid
CH ₃	H	H	O	8-Methylguanine	Br	O-amino acid
CH ₃	H	H	O	6-Methylcytosine	Br	O-amino acid
CH ₃	H	H	O	8-Methyladenine	Br	O-amino acid

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	H	H	O	8-Methylhypoxanthine	Br	O-amino acid
CH ₃	H	H	O	5-Fluoro-6-Methyluracil	Br	O-amino acid
CH ₃	H	H	O	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CH ₃	H	H	O	2-Fluoro-8-methyladenine	Br	O-amino acid
CH ₃	H	H	O	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CH ₃	H	H	O	2-Amino-8-methyladenine	Br	O-amino acid
CH ₃	H	H	O	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CH ₃	H	H	O	2-N-acetyl-8-methylguanine	Br	O-amino acid
CH ₃	H	H	O	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CH ₃	H	H	O	6-N-acetyl-8-methyladenine	Br	O-amino acid
CH ₃	H	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CH ₃	H	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CH ₃	H	H	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CH ₃	H	H	O	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CH ₃	H	H	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-amino acid
CH ₃	H	H	O	6-Methylthymine	Br	O-acyl
CH ₃	H	H	O	6-Methyluracil	Br	O-acyl
CH ₃	H	H	O	8-Methylguanine	Br	O-acyl
CH ₃	H	H	O	6-Methylcytosine	Br	O-acyl
CH ₃	H	H	O	8-Methyladenine	Br	O-acyl
CH ₃	H	H	O	8-Methylhypoxanthine	Br	O-acyl
CH ₃	H	H	O	5-Fluoro-6-Methyluracil	Br	O-acyl
CH ₃	H	H	O	5-Fluoro-6-Methylcytosine	Br	O-acyl
CH ₃	H	H	O	2-Fluoro-8-methyladenine	Br	O-acyl
CH ₃	H	H	O	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CH ₃	H	H	O	2-Amino-8-methyladenine	Br	O-acyl
CH ₃	H	H	O	2-Amino-8-methylhypoxanthine	Br	O-acyl
CH ₃	H	H	O	2-N-acetyl-8-methylguanine	Br	O-acyl
CH ₃	H	H	O	4-N-acetyl-8-methylcytosine	Br	O-acyl
CH ₃	H	H	O	6-N-acetyl-8-methyladenine	Br	O-acyl
CH ₃	H	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CH ₃	H	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CH ₃	H	H	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CH ₃	H	H	O	2-N-acetylamino-8-methyladenine	Br	O-acyl
CH ₃	H	H	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-acyl
CH ₃	H	H	O	6-Methylthymine	Cl	O-amino acid
CH ₃	H	H	O	6-Methyluracil	Cl	O-amino acid
CH ₃	H	H	O	8-Methylguanine	Cl	O-amino acid
CH ₃	H	H	O	6-Methylcytosine	Cl	O-amino acid
CH ₃	H	H	O	8-Methyladenine	Cl	O-amino acid
CH ₃	H	H	O	8-Methylhypoxanthine	Cl	O-amino acid
CH ₃	H	H	O	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CH ₃	H	H	O	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CH ₃	H	H	O	2-Fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	H	H	O	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	H	H	O	2-Amino-8-methyladenine	Cl	O-amino acid
CH ₃	H	H	O	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	H	H	O	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CH ₃	H	H	O	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CH ₃	H	H	O	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CH ₃	H	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CH ₃	H	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	H	H	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CH ₃	H	H	O	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CH ₃	H	H	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	H	H	O	6-Methylthymine	Cl	O-acyl
CH ₃	H	H	O	6-Methyluracil	Cl	O-acyl
CH ₃	H	H	O	8-Methylguanine	Cl	O-acyl
CH ₃	H	H	O	6-Methylcytosine	Cl	O-acyl
CH ₃	H	H	O	8-Methyladenine	Cl	O-acyl
CH ₃	H	H	O	8-Methylhypoxanthine	Cl	O-acyl
CH ₃	H	H	O	5-Fluoro-6-Methyluracil	Cl	O-acyl
CH ₃	H	H	O	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CH ₃	H	H	O	2-Fluoro-8-methyladenine	Cl	O-acyl
CH ₃	H	H	O	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CH ₃	H	H	O	2-Amino-8-methyladenine	Cl	O-acyl
CH ₃	H	H	O	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CH ₃	H	H	O	2-N-acetyl-8-methylguanine	Cl	O-acyl
CH ₃	H	H	O	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CH ₃	H	H	O	6-N-acetyl-8-methyladenine	Cl	O-acyl
CH ₃	H	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CH ₃	H	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CH ₃	H	H	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CH ₃	H	H	O	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CH ₃	H	H	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-acyl

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	H	H	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-acyl
CH ₃	H	H	O	6-Methylthymine	I	O-amino acid
CH ₃	H	H	O	6-Methyluracil	I	O-amino acid
CH ₃	H	H	O	8-Methylguanine	I	O-amino acid
CH ₃	H	H	O	6-Methylcytosine	I	O-amino acid
CH ₃	H	H	O	8-Methyladenine	I	O-amino acid
CH ₃	H	H	O	8-Methylhypoxanthine	I	O-amino acid
CH ₃	H	H	O	5-Fluoro-6-Methyluracil	I	O-amino acid
CH ₃	H	H	O	5-Fluoro-6-Methylcytosine	I	O-amino acid
CH ₃	H	H	O	2-Fluoro-8-methyladenine	I	O-amino acid
CH ₃	H	H	O	2-Fluoro-8-methylhypoxanthine	I	O-amino acid
CH ₃	H	H	O	2-Amino-8-methyladenine	I	O-amino acid
CH ₃	H	H	O	2-Amino-8-methylhypoxanthine	I	O-amino acid
CH ₃	H	H	O	2-N-acetyl-8-methylguanine	I	O-amino acid
CH ₃	H	H	O	4-N-acetyl-8-methylcytosine	I	O-amino acid
CH ₃	H	H	O	6-N-acetyl-8-methyladenine	I	O-amino acid
CH ₃	H	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	I	O-amino acid
CH ₃	H	H	O	6-N-acetyl-2-fluoro-8-methyladenine	I	O-amino acid
CH ₃	H	H	O	6-N-acetyl-2-amino-8-methyladenine	I	O-amino acid
CH ₃	H	H	O	2-N-acetylamino-8-methyladenine	I	O-amino acid
CH ₃	H	H	O	2-N-acetylamino-8-methylhypoxanthine	I	O-amino acid
CH ₃	H	H	O	6-Methylthymine	I	O-acyl
CH ₃	H	H	O	6-Methyluracil	I	O-acyl
CH ₃	H	H	O	8-Methylguanine	I	O-acyl
CH ₃	H	H	O	6-Methylcytosine	I	O-acyl
CH ₃	H	H	O	8-Methyladenine	I	O-acyl
CH ₃	H	H	O	8-Methylhypoxanthine	I	O-acyl
CH ₃	H	H	O	5-Fluoro-6-Methyluracil	I	O-acyl
CH ₃	H	H	O	5-Fluoro-6-Methylcytosine	I	O-acyl
CH ₃	H	H	O	2-Fluoro-8-methyladenine	I	O-acyl
CH ₃	H	H	O	2-Fluoro-8-methylhypoxanthine	I	O-acyl
CH ₃	H	H	O	2-Amino-8-methyladenine	I	O-acyl
CH ₃	H	H	O	2-Amino-8-methylhypoxanthine	I	O-acyl
CH ₃	H	H	O	2-N-acetyl-8-methylguanine	I	O-acyl
CH ₃	H	H	O	4-N-acetyl-8-methylcytosine	I	O-acyl
CH ₃	H	H	O	6-N-acetyl-8-methyladenine	I	O-acyl
CH ₃	H	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	I	O-acyl
CH ₃	H	H	O	6-N-acetyl-2-fluoro-8-methyladenine	I	O-acyl
CH ₃	H	H	O	6-N-acetyl-2-amino-8-methyladenine	I	O-acyl
CH ₃	H	H	O	2-N-acetylamino-8-methyladenine	I	O-acyl
CH ₃	H	H	O	2-N-acetylamino-8-methylhypoxanthine	I	O-acyl
CH ₃	H	H	O	6-Methylthymine	H	O-amino acid
CH ₃	H	H	O	6-Methyluracil	H	O-amino acid
CH ₃	H	H	O	8-Methylguanine	H	O-amino acid
CH ₃	H	H	O	6-Methylcytosine	H	O-amino acid
CH ₃	H	H	O	8-Methyladenine	H	O-amino acid
CH ₃	H	H	O	8-Methylhypoxanthine	H	O-amino acid
CH ₃	H	H	O	5-Fluoro-6-Methyluracil	H	O-amino acid
CH ₃	H	H	O	5-Fluoro-6-Methylcytosine	H	O-amino acid
CH ₃	H	H	O	2-Fluoro-8-methyladenine	H	O-amino acid
CH ₃	H	H	O	2-Fluoro-8-methylhypoxanthine	H	O-amino acid
CH ₃	H	H	O	2-Amino-8-methyladenine	H	O-amino acid
CH ₃	H	H	O	2-Amino-8-methylhypoxanthine	H	O-amino acid
CH ₃	H	H	O	2-N-acetyl-8-methylguanine	H	O-amino acid
CH ₃	H	H	O	4-N-acetyl-8-methylcytosine	H	O-amino acid
CH ₃	H	H	O	6-N-acetyl-8-methyladenine	H	O-amino acid
CH ₃	H	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-amino acid
CH ₃	H	H	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-amino acid
CH ₃	H	H	O	6-N-acetyl-2-amino-8-methyladenine	H	O-amino acid
CH ₃	H	H	O	2-N-acetylamino-8-methyladenine	H	O-amino acid
CH ₃	H	H	O	2-N-acetylamino-8-methylhypoxanthine	H	O-amino acid
CH ₃	H	H	O	6-Methylthymine	H	O-acyl
CH ₃	H	H	O	6-Methyluracil	H	O-acyl
CH ₃	H	H	O	8-Methylguanine	H	O-acyl
CH ₃	H	H	O	6-Methylcytosine	H	O-acyl
CH ₃	H	H	O	8-Methyladenine	H	O-acyl
CH ₃	H	H	O	8-Methylhypoxanthine	H	O-acyl
CH ₃	H	H	O	5-Fluoro-6-Methyluracil	H	O-acyl
CH ₃	H	H	O	5-Fluoro-6-Methylcytosine	H	O-acyl
CH ₃	H	H	O	2-Fluoro-8-methyladenine	H	O-acyl
CH ₃	H	H	O	2-Fluoro-8-methylhypoxanthine	H	O-acyl
CH ₃	H	H	O	2-Amino-8-methyladenine	H	O-acyl
CH ₃	H	H	O	2-Amino-8-methylhypoxanthine	H	O-acyl

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	H	H	O	2-N-acetyl-8-methylguanine	H	O-acyl
CH ₃	H	H	O	4-N-acetyl-8-methylcytosine	H	O-acyl
CH ₃	H	H	O	6-N-acetyl-8-methyladenine	H	O-acyl
CH ₃	H	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-acyl
CH ₃	H	H	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-acyl
CH ₃	H	H	O	6-N-acetyl-2-amino-8-methyladenine	H	O-acyl
CH ₃	H	H	O	2-N-acetylamino-8-methyladenine	H	O-acyl
CH ₃	H	H	O	2-N-acetylamino-8-methylhypoxanthine	H	O-acyl
CH ₃	H	OH	O	6-Methylthymine	F	O-amino acid
CH ₃	H	OH	O	6-Methyluracil	F	O-amino acid
CH ₃	H	OH	O	8-Methylguanine	F	O-amino acid
CH ₃	H	OH	O	6-Methylcytosine	F	O-amino acid
CH ₃	H	OH	O	8-Methyladenine	F	O-amino acid
CH ₃	H	OH	O	8-Methylhypoxanthine	F	O-amino acid
CH ₃	H	OH	O	5-Fluoro-6-Methyluracil	F	O-amino acid
CH ₃	H	OH	O	5-Fluoro-6-Methylcytosine	F	O-amino acid
CH ₃	H	OH	O	2-Fluoro-8-methyladenine	F	O-amino acid
CH ₃	H	OH	O	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CH ₃	H	OH	O	2-Amino-8-methyladenine	F	O-amino acid
CH ₃	H	OH	O	2-Amino-8-methylhypoxanthine	F	O-amino acid
CH ₃	H	OH	O	2-N-acetyl-8-methylguanine	F	O-amino acid
CH ₃	H	OH	O	4-N-acetyl-8-methylcytosine	F	O-amino acid
CH ₃	H	OH	O	6-N-acetyl-8-methyladenine	F	O-amino acid
CH ₃	H	OH	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CH ₃	H	OH	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CH ₃	H	OH	O	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CH ₃	H	OH	O	2-N-acetylamino-8-methyladenine	F	O-amino acid
CH ₃	H	OH	O	2-N-acetylamino-8-methylhypoxanthine	F	O-amino acid
CH ₃	H	OH	O	6-Methylthymine	F	O-acyl
CH ₃	H	OH	O	6-Methyluracil	F	O-acyl
CH ₃	H	OH	O	8-Methylguanine	F	O-acyl
CH ₃	H	OH	O	6-Methylcytosine	F	O-acyl
CH ₃	H	OH	O	8-Methyladenine	F	O-acyl
CH ₃	H	OH	O	8-Methylhypoxanthine	F	O-acyl
CH ₃	H	OH	O	5-Fluoro-6-Methyluracil	F	O-acyl
CH ₃	H	OH	O	5-Fluoro-6-Methylcytosine	F	O-acyl
CH ₃	H	OH	O	2-Fluoro-8-methyladenine	F	O-acyl
CH ₃	H	OH	O	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CH ₃	H	OH	O	2-Amino-8-methyladenine	F	O-acyl
CH ₃	H	OH	O	2-Amino-8-methylhypoxanthine	F	O-acyl
CH ₃	H	OH	O	2-N-acetyl-8-methylguanine	F	O-acyl
CH ₃	H	OH	O	4-N-acetyl-8-methylcytosine	F	O-acyl
CH ₃	H	OH	O	6-N-acetyl-8-methyladenine	F	O-acyl
CH ₃	H	OH	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CH ₃	H	OH	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CH ₃	H	OH	O	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CH ₃	H	OH	O	2-N-acetylamino-8-methyladenine	F	O-acyl
CH ₃	H	OH	O	2-N-acetylamino-8-methylhypoxanthine	F	O-acyl
CH ₃	H	OH	O	6-Methylthymine	Br	O-amino acid
CH ₃	H	OH	O	6-Methyluracil	Br	O-amino acid
CH ₃	H	OH	O	8-Methylguanine	Br	O-amino acid
CH ₃	H	OH	O	6-Methylcytosine	Br	O-amino acid
CH ₃	H	OH	O	8-Methyladenine	Br	O-amino acid
CH ₃	H	OH	O	8-Methylhypoxanthine	Br	O-amino acid
CH ₃	H	OH	O	5-Fluoro-6-Methyluracil	Br	O-amino acid
CH ₃	H	OH	O	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CH ₃	H	OH	O	2-Fluoro-8-methyladenine	Br	O-amino acid
CH ₃	H	OH	O	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CH ₃	H	OH	O	2-Amino-8-methyladenine	Br	O-amino acid
CH ₃	H	OH	O	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CH ₃	H	OH	O	2-N-acetyl-8-methylguanine	Br	O-amino acid
CH ₃	H	OH	O	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CH ₃	H	OH	O	6-N-acetyl-8-methyladenine	Br	O-amino acid
CH ₃	H	OH	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CH ₃	H	OH	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CH ₃	H	OH	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CH ₃	H	OH	O	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CH ₃	H	OH	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-amino acid
CH ₃	H	OH	O	6-Methylthymine	Br	O-acyl
CH ₃	H	OH	O	6-Methyluracil	Br	O-acyl
CH ₃	H	OH	O	8-Methylguanine	Br	O-acyl
CH ₃	H	OH	O	6-Methylcytosine	Br	O-acyl
CH ₃	H	OH	O	8-Methyladenine	Br	O-acyl

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	H	OH	O	8-Methylhypoxanthine	Br	O-acyl
CH ₃	H	OH	O	5-Fluoro-6-Methyluracil	Br	O-acyl
CH ₃	H	OH	O	5-Fluoro-6-Methylcytosine	Br	O-acyl
CH ₃	H	OH	O	2-Fluoro-8-methyladenine	Br	O-acyl
CH ₃	H	OH	O	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CH ₃	H	OH	O	2-Amino-8-methyladenine	Br	O-acyl
CH ₃	H	OH	O	2-Amino-8-methylhypoxanthine	Br	O-acyl
CH ₃	H	OH	O	2-N-acetyl-8-methylguanine	Br	O-acyl
CH ₃	H	OH	O	4-N-acetyl-8-methylcytosine	Br	O-acyl
CH ₃	H	OH	O	6-N-acetyl-8-methyladenine	Br	O-acyl
CH ₃	H	OH	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CH ₃	H	OH	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CH ₃	H	OH	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CH ₃	H	OH	O	2-N-acetylamino-8-methyladenine	Br	O-acyl
CH ₃	H	OH	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-acyl
CH ₃	H	OH	O	6-Methylthymine	Cl	O-amino acid
CH ₃	H	OH	O	6-Methyluracil	Cl	O-amino acid
CH ₃	H	OH	O	8-Methylguanine	Cl	O-amino acid
CH ₃	H	OH	O	6-Methylcytosine	Cl	O-amino acid
CH ₃	H	OH	O	8-Methyladenine	Cl	O-amino acid
CH ₃	H	OH	O	8-Methylhypoxanthine	Cl	O-amino acid
CH ₃	H	OH	O	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CH ₃	H	OH	O	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CH ₃	H	OH	O	2-Fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	H	OH	O	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	H	OH	O	2-Amino-8-methyladenine	Cl	O-amino acid
CH ₃	H	OH	O	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	H	OH	O	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CH ₃	H	OH	O	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CH ₃	H	OH	O	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CH ₃	H	OH	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CH ₃	H	OH	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	H	OH	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CH ₃	H	OH	O	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CH ₃	H	OH	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	H	OH	O	6-Methylthymine	Cl	O-acyl
CH ₃	H	OH	O	6-Methyluracil	Cl	O-acyl
CH ₃	H	OH	O	8-Methylguanine	Cl	O-acyl
CH ₃	H	OH	O	6-Methylcytosine	Cl	O-acyl
CH ₃	H	OH	O	8-Methyladenine	Cl	O-acyl
CH ₃	H	OH	O	8-Methylhypoxanthine	Cl	O-acyl
CH ₃	H	OH	O	5-Fluoro-6-Methyluracil	Cl	O-acyl
CH ₃	H	OH	O	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CH ₃	H	OH	O	2-Fluoro-8-methyladenine	Cl	O-acyl
CH ₃	H	OH	O	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CH ₃	H	OH	O	2-Amino-8-methyladenine	Cl	O-acyl
CH ₃	H	OH	O	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CH ₃	H	OH	O	2-N-acetyl-8-methylguanine	Cl	O-acyl
CH ₃	H	OH	O	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CH ₃	H	OH	O	6-N-acetyl-8-methyladenine	Cl	O-acyl
CH ₃	H	OH	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CH ₃	H	OH	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CH ₃	H	OH	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CH ₃	H	OH	O	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CH ₃	H	OH	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-acyl
CH ₃	H	OH	O	6-Methylthymine	I	O-amino acid
CH ₃	H	OH	O	6-Methyluracil	I	O-amino acid
CH ₃	H	OH	O	8-Methylguanine	I	O-amino acid
CH ₃	H	OH	O	6-Methylcytosine	I	O-amino acid
CH ₃	H	OH	O	8-Methyladenine	I	O-amino acid
CH ₃	H	OH	O	8-Methylhypoxanthine	I	O-amino acid
CH ₃	H	OH	O	5-Fluoro-6-Methyluracil	I	O-amino acid
CH ₃	H	OH	O	5-Fluoro-6-Methylcytosine	I	O-amino acid
CH ₃	H	OH	O	2-Fluoro-8-methyladenine	I	O-amino acid
CH ₃	H	OH	O	2-Fluoro-8-methylhypoxanthine	I	O-amino acid
CH ₃	H	OH	O	2-Amino-8-methyladenine	I	O-amino acid
CH ₃	H	OH	O	2-Amino-8-methylhypoxanthine	I	O-amino acid
CH ₃	H	OH	O	2-N-acetyl-8-methylguanine	I	O-amino acid
CH ₃	H	OH	O	4-N-acetyl-8-methylcytosine	I	O-amino acid
CH ₃	H	OH	O	6-N-acetyl-8-methyladenine	I	O-amino acid
CH ₃	H	OH	O	4-N-acetyl-5-fluoro-8-methylcytosine	I	O-amino acid
CH ₃	H	OH	O	6-N-acetyl-2-fluoro-8-methyladenine	I	O-amino acid
CH ₃	H	OH	O	6-N-acetyl-2-amino-8-methyladenine	I	O-amino acid
CH ₃	H	OH	O	2-N-acetylamino-8-methyladenine	I	O-amino acid
CH ₃	H	OH	O	2-N-acetylamino-8-methylhypoxanthine	I	O-amino acid

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	H	OH	O	2-N-acetylamino-8-methylhypoxanthine	I	O-amino acid
CH ₃	H	OH	O	6-Methylthymine	I	O-acyl
CH ₃	H	OH	O	6-Methyluracil	I	O-acyl
CH ₃	H	OH	O	8-Methylguanine	I	O-acyl
CH ₃	H	OH	O	6-Methylcytosine	I	O-acyl
CH ₃	H	OH	O	8-Methyladenine	I	O-acyl
CH ₃	H	OH	O	8-Methylhypoxanthine	I	O-acyl
CH ₃	H	OH	O	5-Fluoro-6-Methyluracil	I	O-acyl
CH ₃	H	OH	O	5-Fluoro-6-Methylcytosine	I	O-acyl
CH ₃	H	OH	O	2-Fluoro-8-methyladenine	I	O-acyl
CH ₃	H	OH	O	2-Fluoro-8-methylhypoxanthine	I	O-acyl
CH ₃	H	OH	O	2-Amino-8-methyladenine	I	O-acyl
CH ₃	H	OH	O	2-Amino-8-methylhypoxanthine	I	O-acyl
CH ₃	H	OH	O	2-N-acetyl-8-methylguanine	I	O-acyl
CH ₃	H	OH	O	4-N-acetyl-8-methylcytosine	I	O-acyl
CH ₃	H	OH	O	6-N-acetyl-8-methyladenine	I	O-acyl
CH ₃	H	OH	O	4-N-acetyl-5-fluoro-8-methylcytosine	I	O-acyl
CH ₃	H	OH	O	6-N-acetyl-2-fluoro-8-methyladenine	I	O-acyl
CH ₃	H	OH	O	6-N-acetyl-2-amino-8-methyladenine	I	O-acyl
CH ₃	H	OH	O	2-N-acetylamino-8-methyladenine	I	O-acyl
CH ₃	H	OH	O	2-N-acetylamino-8-methylhypoxanthine	I	O-acyl
CH ₃	H	OH	O	6-Methylthymine	H	O-amino acid
CH ₃	H	OH	O	6-Methyluracil	H	O-amino acid
CH ₃	H	OH	O	8-Methylguanine	H	O-amino acid
CH ₃	H	OH	O	6-Methylcytosine	H	O-amino acid
CH ₃	H	OH	O	8-Methyladenine	H	O-amino acid
CH ₃	H	OH	O	8-Methylhypoxanthine	H	O-amino acid
CH ₃	H	OH	O	5-Fluoro-6-Methyluracil	H	O-amino acid
CH ₃	H	OH	O	5-Fluoro-6-Methylcytosine	H	O-amino acid
CH ₃	H	OH	O	2-Fluoro-8-methyladenine	H	O-amino acid
CH ₃	H	OH	O	2-Fluoro-8-methylhypoxanthine	H	O-amino acid
CH ₃	H	OH	O	2-Amino-8-methyladenine	H	O-amino acid
CH ₃	H	OH	O	2-Amino-8-methylhypoxanthine	H	O-amino acid
CH ₃	H	OH	O	2-N-acetyl-8-methylguanine	H	O-amino acid
CH ₃	H	OH	O	4-N-acetyl-8-methylcytosine	H	O-amino acid
CH ₃	H	OH	O	6-N-acetyl-8-methyladenine	H	O-amino acid
CH ₃	H	OH	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-amino acid
CH ₃	H	OH	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-amino acid
CH ₃	H	OH	O	6-N-acetyl-2-amino-8-methyladenine	H	O-amino acid
CH ₃	H	OH	O	2-N-acetylamino-8-methyladenine	H	O-amino acid
CH ₃	H	OH	O	2-N-acetylamino-8-methylhypoxanthine	H	O-amino acid
CH ₃	H	OH	O	6-Methylthymine	H	O-acyl
CH ₃	H	OH	O	6-Methyluracil	H	O-acyl
CH ₃	H	OH	O	8-Methylguanine	H	O-acyl
CH ₃	H	OH	O	6-Methylcytosine	H	O-acyl
CH ₃	H	OH	O	8-Methyladenine	H	O-acyl
CH ₃	H	OH	O	8-Methylhypoxanthine	H	O-acyl
CH ₃	H	OH	O	5-Fluoro-6-Methyluracil	H	O-acyl
CH ₃	H	OH	O	5-Fluoro-6-Methylcytosine	H	O-acyl
CH ₃	H	OH	O	2-Fluoro-8-methyladenine	H	O-acyl
CH ₃	H	OH	O	2-Fluoro-8-methylhypoxanthine	H	O-acyl
CH ₃	H	OH	O	2-Amino-8-methyladenine	H	O-acyl
CH ₃	H	OH	O	2-Amino-8-methylhypoxanthine	H	O-acyl
CH ₃	H	OH	O	2-N-acetyl-8-methylguanine	H	O-acyl
CH ₃	H	OH	O	4-N-acetyl-8-methylcytosine	H	O-acyl
CH ₃	H	OH	O	6-N-acetyl-8-methyladenine	H	O-acyl
CH ₃	H	OH	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-acyl
CH ₃	H	OH	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-acyl
CH ₃	H	OH	O	6-N-acetyl-2-amino-8-methyladenine	H	O-acyl
CH ₃	H	OH	O	2-N-acetylamino-8-methyladenine	H	O-acyl
CH ₃	H	OH	O	2-N-acetylamino-8-methylhypoxanthine	H	O-acyl
CF ₃	O-acyl	F	O	6-Methylthymine	F	H
CF ₃	O-acyl	F	O	6-Methyluracil	F	H
CF ₃	O-acyl	F	O	8-Methylguanine	F	H
CF ₃	O-acyl	F	O	6-Methylcytosine	F	H
CF ₃	O-acyl	F	O	8-Methyladenine	F	H
CF ₃	O-acyl	F	O	8-Methylhypoxanthine	F	H
CF ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	F	H
CF ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	F	H
CF ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	F	H
CF ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	F	H
CF ₃	O-acyl	F	O	2-Amino-8-methyladenine	F	H
CF ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	F	H

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	F	H
CF ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	F	H
CF ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	P	H
CF ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	H
CF ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	F	H
CF ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	F	H
CF ₃	O-acyl	F	O	2-N-acetyl-amino-8-methyladenine	F	H
CF ₃	O-acyl	F	O	2-N-acetyl-amino-8-methylhypoxanthine	F	H
CF ₃	O-acyl	F	O	6-Methylthymine	F	O-amino acid
CF ₃	O-acyl	F	O	6-Methyluracil	F	O-amino acid
CF ₃	O-acyl	F	O	8-Methylguanine	F	O-amino acid
CF ₃	O-acyl	F	O	6-Methylcytosine	F	O-amino acid
CF ₃	O-acyl	F	O	8-Methyladenine	F	O-amino acid
CF ₃	O-acyl	F	O	8-Methylhypoxanthine	F	O-amino acid
CF ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	F	O-amino acid
CF ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	F	O-amino acid
CF ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-acyl	F	O	2-Amino-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	F	O-amino acid
CF ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	F	O-amino acid
CF ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CF ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	F	O	2-N-acetyl-amino-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	F	O	2-N-acetyl-amino-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-acyl	F	O	6-Methylthymine	F	O-acyl
CF ₃	O-acyl	F	O	6-Methyluracil	F	O-acyl
CF ₃	O-acyl	F	O	8-Methylguanine	F	O-acyl
CF ₃	O-acyl	F	O	6-Methylcytosine	F	O-acyl
CF ₃	O-acyl	F	O	8-Methyladenine	F	O-acyl
CF ₃	O-acyl	F	O	8-Methylhypoxanthine	F	O-acyl
CF ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	F	O-acyl
CF ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	F	O-acyl
CF ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	F	O-acyl
CF ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CF ₃	O-acyl	F	O	2-Amino-8-methyladenine	F	O-acyl
CF ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	F	O-acyl
CF ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	F	O-acyl
CF ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	F	O-acyl
CF ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	F	O-acyl
CF ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CF ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CF ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CF ₃	O-acyl	F	O	2-N-acetyl-amino-8-methyladenine	F	O-acyl
CF ₃	O-acyl	F	O	2-N-acetyl-amino-8-methylhypoxanthine	F	O-acyl
CF ₃	O-acyl	F	O	6-Methylthymine	F	OH
CF ₃	O-acyl	F	O	6-Methyluracil	F	OH
CF ₃	O-acyl	F	O	8-Methylguanine	F	OH
CF ₃	O-acyl	F	O	6-Methylcytosine	F	OH
CF ₃	O-acyl	F	O	8-Methyladenine	F	OH
CF ₃	O-acyl	F	O	8-Methylhypoxanthine	F	OH
CF ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	F	OH
CF ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	F	OH
CF ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	F	OH
CF ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	F	OH
CF ₃	O-acyl	F	O	2-Amino-8-methyladenine	F	OH
CF ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	F	OH
CF ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	F	OH
CF ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	F	OH
CF ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	F	OH
CF ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	OH
CF ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	F	OH
CF ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	F	OH
CF ₃	O-acyl	F	O	2-N-acetyl-amino-8-methyladenine	F	OH
CF ₃	O-acyl	F	O	2-N-acetyl-amino-8-methylhypoxanthine	F	OH
CF ₃	O-acyl	F	O	6-Methylthymine	Br	H
CF ₃	O-acyl	F	O	6-Methyluracil	Br	H
CF ₃	O-acyl	F	O	8-Methylguanine	Br	H
CF ₃	O-acyl	F	O	6-Methylcytosine	Br	H
CF ₃	O-acyl	F	O	8-Methyladenine	Br	H

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	F	O	8-Methylhypoxanthine	Br	H
CF ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	Br	H
CF ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	Br	H
CF ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	Br	H
CF ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	Br	H
CF ₃	O-acyl	F	O	2-Amino-8-methyladenine	Br	H
CF ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	Br	H
CF ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	Br	H
CF ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	Br	H
CF ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	Br	H
CF ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	H
CF ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	H
CF ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	Br	H
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methyladenine	Br	H
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methylhypoxanthine	Br	H
CF ₃	O-acyl	F	O	6-Methylthymine	Br	O-amino acid
CF ₃	O-acyl	F	O	6-Methyluracil	Br	O-amino acid
CF ₃	O-acyl	F	O	8-Methylguanine	Br	O-amino acid
CF ₃	O-acyl	F	O	6-Methylcytosine	Br	O-amino acid
CF ₃	O-acyl	F	O	8-Methyladenine	Br	O-amino acid
CF ₃	O-acyl	F	O	8-Methylhypoxanthine	Br	O-amino acid
CF ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	Br	O-amino acid
CF ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CF ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-acyl	F	O	2-Amino-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	Br	O-amino acid
CF ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CF ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CF ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-acyl	F	O	6-Methylthymine	Br	O-acyl
CF ₃	O-acyl	F	O	6-Methyluracil	Br	O-acyl
CF ₃	O-acyl	F	O	8-Methylguanine	Br	O-acyl
CF ₃	O-acyl	F	O	6-Methylcytosine	Br	O-acyl
CF ₃	O-acyl	F	O	8-Methyladenine	Br	O-acyl
CF ₃	O-acyl	F	O	8-Methylhypoxanthine	Br	O-acyl
CF ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	Br	O-acyl
CF ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	Br	O-acyl
CF ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-acyl	F	O	2-Amino-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	Br	O-acyl
CF ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	Br	O-acyl
CF ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CF ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-acyl	F	O	6-Methylthymine	Br	OH
CF ₃	O-acyl	F	O	6-Methyluracil	Br	OH
CF ₃	O-acyl	F	O	8-Methylguanine	Br	OH
CF ₃	O-acyl	F	O	6-Methylcytosine	Br	OH
CF ₃	O-acyl	F	O	8-Methyladenine	Br	OH
CF ₃	O-acyl	F	O	8-Methylhypoxanthine	Br	OH
CF ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	Br	OH
CF ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	Br	OH
CF ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	Br	OH
CF ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	Br	OH
CF ₃	O-acyl	F	O	2-Amino-8-methyladenine	Br	OH
CF ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	Br	OH
CF ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	Br	OH
CF ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	Br	OH
CF ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	Br	OH
CF ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	OH
CF ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	OH
CF ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	Br	OH
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methyladenine	Br	OH

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methylhypoxanthine	Br	OH
CF ₃	O-acyl	F	O	6-Methylthymine	Cl	O-acyl
CF ₃	O-acyl	F	O	6-Methyluracil	Cl	O-acyl
CF ₃	O-acyl	F	O	8-Methylguanine	Cl	O-acyl
CF ₃	O-acyl	F	O	6-Methylcytosine	Cl	O-acyl
CF ₃	O-acyl	F	O	8-Methyladenine	Cl	O-acyl
CF ₃	O-acyl	F	O	8-Methylhypoxanthine	Cl	O-acyl
CF ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	Cl	O-acyl
CF ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CF ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-acyl	F	O	2-Amino-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	Cl	O-acyl
CF ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CF ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CF ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-acyl	F	O	6-Methylthymine	Cl	OH
CF ₃	O-acyl	F	O	6-Methyluracil	Cl	OH
CF ₃	O-acyl	F	O	8-Methylguanine	Cl	OH
CF ₃	O-acyl	F	O	6-Methylcytosine	Cl	OH
CF ₃	O-acyl	F	O	8-Methyladenine	Cl	OH
CF ₃	O-acyl	F	O	8-Methylhypoxanthine	Cl	OH
CF ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	Cl	OH
CF ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	Cl	OH
CF ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	Cl	OH
CF ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	Cl	OH
CF ₃	O-acyl	F	O	2-Amino-8-methyladenine	Cl	OH
CF ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	Cl	OH
CF ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	Cl	OH
CF ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	Cl	OH
CF ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	Cl	OH
CF ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	OH
CF ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	OH
CF ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	Cl	OH
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methyladenine	Cl	OH
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methylhypoxanthine	Cl	OH
CF ₃	O-acyl	F	O	6-Methylthymine	Cl	H
CF ₃	O-acyl	F	O	6-Methyluracil	Cl	H
CF ₃	O-acyl	F	O	8-Methylguanine	Cl	H
CF ₃	O-acyl	F	O	6-Methylcytosine	Cl	H
CF ₃	O-acyl	F	O	8-Methyladenine	Cl	H
CF ₃	O-acyl	F	O	8-Methylhypoxanthine	Cl	H
CF ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	Cl	H
CF ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	Cl	H
CF ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	Cl	H
CF ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	Cl	H
CF ₃	O-acyl	F	O	2-Amino-8-methyladenine	Cl	H
CF ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	Cl	H
CF ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	Cl	H
CF ₃	O-acyl	F	O	6-Methylthymine	Cl	O-amino acid
CF ₃	O-acyl	F	O	6-Methyluracil	Cl	O-amino acid
CF ₃	O-acyl	F	O	8-Methylguanine	Cl	O-amino acid
CF ₃	O-acyl	F	O	6-Methylcytosine	Cl	O-amino acid
CF ₃	O-acyl	F	O	8-Methyladenine	Cl	O-amino acid
CF ₃	O-acyl	F	O	8-Methylhypoxanthine	Cl	O-amino acid
CF ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CF ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CF ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	O-acyl	F	O	2-Amino-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CF ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CF ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CF ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methyladenine	Cl	O-amino acid

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	O-acyl	F	O	6-Methylthymine	H	H
CF ₃	O-acyl	F	O	6-Methyluracil	H	H
CF ₃	O-acyl	F	O	8-Methylguanine	H	H
CF ₃	O-acyl	F	O	6-Methylcytosine	H	H
CF ₃	O-acyl	F	O	8-Methyladenine	H	H
CF ₃	O-acyl	F	O	8-Methylhypoxanthine	H	H
CF ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	H	H
CF ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	H	H
CF ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	H	H
CF ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	H	H
CF ₃	O-acyl	F	O	2-Amino-8-methyladenine	H	H
CF ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	H	H
CF ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	H	H
CF ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	H	H
CF ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	H	H
CF ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	H
CF ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	H	H
CF ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	H	H
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methyladenine	H	H
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methylhypoxanthine	H	H
CF ₃	O-acyl	F	O	6-Methylthymine	H	O-amino acid
CF ₃	O-acyl	F	O	6-Methyluracil	H	O-amino acid
CF ₃	O-acyl	F	O	8-Methylguanine	H	O-amino acid
CF ₃	O-acyl	F	O	6-Methylcytosine	H	O-amino acid
CF ₃	O-acyl	F	O	8-Methyladenine	H	O-amino acid
CF ₃	O-acyl	F	O	8-Methylhypoxanthine	H	O-amino acid
CF ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	H	O-amino acid
CF ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	H	O-amino acid
CF ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	H	O-amino acid
CF ₃	O-acyl	F	O	2-Amino-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	H	O-amino acid
CF ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	H	O-amino acid
CF ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	H	O-amino acid
CF ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-amino acid
CF ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methylhypoxanthine	H	O-amino acid
CF ₃	O-acyl	F	O	6-Methylthymine	H	O-acyl
CF ₃	O-acyl	F	O	6-Methyluracil	H	O-acyl
CF ₃	O-acyl	F	O	8-Methylguanine	H	O-acyl
CF ₃	O-acyl	F	O	6-Methylcytosine	H	O-acyl
CF ₃	O-acyl	F	O	8-Methyladenine	H	O-acyl
CF ₃	O-acyl	F	O	8-Methylhypoxanthine	H	O-acyl
CF ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	H	O-acyl
CF ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	H	O-acyl
CF ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	H	O-acyl
CF ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	H	O-acyl
CF ₃	O-acyl	F	O	2-Amino-8-methyladenine	H	O-acyl
CF ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	H	O-acyl
CF ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	H	O-acyl
CF ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	H	O-acyl
CF ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	H	O-acyl
CF ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-acyl
CF ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-acyl
CF ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	H	O-acyl
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methyladenine	H	O-acyl
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methylhypoxanthine	H	O-acyl
CF ₃	O-acyl	F	O	6-Methylthymine	H	OH
CF ₃	O-acyl	F	O	6-Methyluracil	H	OH
CF ₃	O-acyl	F	O	8-Methylguanine	H	OH
CF ₃	O-acyl	F	O	6-Methylcytosine	H	OH
CF ₃	O-acyl	F	O	8-Methyladenine	H	OH
CF ₃	O-acyl	F	O	8-Methylhypoxanthine	H	OH
CF ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	H	OH
CF ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	H	OH
CF ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	H	OH
CF ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	H	OH
CF ₃	O-acyl	F	O	2-Amino-8-methyladenine	H	OH
CF ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	H	OH

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	H	OH
CF ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	H	OH
CF ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	H	OH
CF ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	OH
CF ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	H	OH
CF ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	H	OH
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methyladenine	H	OH
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methylhypoxanthine	H	OH
CF ₃	O-acyl	F	O	6-Methylthymine	OH	H
CF ₃	O-acyl	F	O	6-Methyluracil	OH	H
CF ₃	O-acyl	F	O	8-Methylguanine	OH	H
CF ₃	O-acyl	F	O	6-Methylcytosine	OH	H
CF ₃	O-acyl	F	O	8-Methyladenine	OH	H
CF ₃	O-acyl	F	O	8-Methylhypoxanthine	OH	H
CF ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	OH	H
CF ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	OH	H
CF ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	OH	H
CF ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	OH	H
CF ₃	O-acyl	F	O	2-Amino-8-methyladenine	OH	H
CF ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	OH	H
CF ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	OH	H
CF ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	OH	H
CF ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	OH	H
CF ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	OH	H
CF ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	OH	H
CF ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	OH	H
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methyladenine	OH	H
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methylhypoxanthine	OH	H
CF ₃	O-acyl	Br	O	6-Methylthymine	F	H
CF ₃	O-acyl	Br	O	6-Methyluracil	F	H
CF ₃	O-acyl	Br	O	8-Methylguanine	F	H
CF ₃	O-acyl	Br	O	6-Methylcytosine	F	H
CF ₃	O-acyl	Br	O	8-Methyladenine	F	H
CF ₃	O-acyl	Br	O	8-Methylhypoxanthine	F	H
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	F	H
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	F	H
CF ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	F	H
CF ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	F	H
CF ₃	O-acyl	Br	O	2-Amino-8-methyladenine	F	H
CF ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	F	H
CF ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	F	H
CF ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	F	H
CF ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	F	H
CF ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	H
CF ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	F	H
CF ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	F	H
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	F	H
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	F	H
CF ₃	O-acyl	Br	O	6-Methylthymine	F	O-amino acid
CF ₃	O-acyl	Br	O	6-Methyluracil	F	O-amino acid
CF ₃	O-acyl	Br	O	8-Methylguanine	F	O-amino acid
CF ₃	O-acyl	Br	O	6-Methylcytosine	F	O-amino acid
CF ₃	O-acyl	Br	O	8-Methyladenine	F	O-amino acid
CF ₃	O-acyl	Br	O	8-Methylhypoxanthine	F	O-amino acid
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	F	O-amino acid
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	F	O-amino acid
CF ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-acyl	Br	O	2-Amino-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	F	O-amino acid
CF ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	F	O-amino acid
CF ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CF ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-acyl	Br	O	6-Methylthymine	F	O-acyl
CF ₃	O-acyl	Br	O	6-Methyluracil	F	O-acyl
CF ₃	O-acyl	Br	O	8-Methylguanine	F	O-acyl
CF ₃	O-acyl	Br	O	6-Methylcytosine	F	O-acyl
CF ₃	O-acyl	Br	O	8-Methyladenine	F	O-acyl

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	Br	O	8-Methylhypoxanthine	F	O-acyl
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	F	O-acyl
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	F	O-acyl
CF ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	F	O-acyl
CF ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CF ₃	O-acyl	Br	O	2-Amino-8-methyladenine	F	O-acyl
CF ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	F	O-acyl
CF ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	F	O-acyl
CF ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	F	O-acyl
CF ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	F	O-acyl
CF ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CF ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CF ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	F	O-acyl
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	F	O-acyl
CF ₃	O-acyl	Br	O	6-Methylthymine	F	OH
CF ₃	O-acyl	Br	O	6-Methyluracil	F	OH
CF ₃	O-acyl	Br	O	8-Methylguanine	F	OH
CF ₃	O-acyl	Br	O	6-Methylcytosine	F	OH
CF ₃	O-acyl	Br	O	8-Methyladenine	F	OH
CF ₃	O-acyl	Br	O	8-Methylhypoxanthine	F	OH
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	F	OH
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	F	OH
CF ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	F	OH
CF ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	F	OH
CF ₃	O-acyl	Br	O	2-Amino-8-methyladenine	F	OH
CF ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	F	OH
CF ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	F	OH
CF ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	F	OH
CF ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	F	OH
CF ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	OH
CF ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	F	OH
CF ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	F	OH
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	F	OH
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	F	OH
CF ₃	O-acyl	Br	O	6-Methylthymine	Br	H
CF ₃	O-acyl	Br	O	6-Methyluracil	Br	H
CF ₃	O-acyl	Br	O	8-Methylguanine	Br	H
CF ₃	O-acyl	Br	O	6-Methylcytosine	Br	H
CF ₃	O-acyl	Br	O	8-Methyladenine	Br	H
CF ₃	O-acyl	Br	O	8-Methylhypoxanthine	Br	H
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	Br	H
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	Br	H
CF ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	Br	H
CF ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	Br	H
CF ₃	O-acyl	Br	O	2-Amino-8-methyladenine	Br	H
CF ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	Br	H
CF ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	Br	H
CF ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	Br	H
CF ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	Br	H
CF ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	H
CF ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	H
CF ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	Br	H
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	Br	H
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	Br	H
CF ₃	O-acyl	Br	O	6-Methylthymine	Br	O-amino acid
CF ₃	O-acyl	Br	O	6-Methyluracil	Br	O-amino acid
CF ₃	O-acyl	Br	O	8-Methylguanine	Br	O-amino acid
CF ₃	O-acyl	Br	O	6-Methylcytosine	Br	O-amino acid
CF ₃	O-acyl	Br	O	8-Methyladenine	Br	O-amino acid
CF ₃	O-acyl	Br	O	8-Methylhypoxanthine	Br	O-amino acid
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	Br	O-amino acid
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CF ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-acyl	Br	O	2-Amino-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	Br	O-amino acid
CF ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CF ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CF ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	Br	O-amino acid

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-acyl	Br	O	6-Methylthymine	Br	O-acyl
CF ₃	O-acyl	Br	O	6-Methyluracil	Br	O-acyl
CF ₃	O-acyl	Br	O	8-Methylguanine	Br	O-acyl
CF ₃	O-acyl	Br	O	6-Methylcytosine	Br	O-acyl
CF ₃	O-acyl	Br	O	8-Methyladenine	Br	O-acyl
CF ₃	O-acyl	Br	O	8-Methylhypoxanthine	Br	O-acyl
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	Br	O-acyl
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	Br	O-acyl
CF ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-acyl	Br	O	2-Amino-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	Br	O-acyl
CF ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	Br	O-acyl
CF ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CF ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-acyl	Br	O	6-Methylthymine	Br	OH
CF ₃	O-acyl	Br	O	6-Methyluracil	Br	OH
CF ₃	O-acyl	Br	O	8-Methylguanine	Br	OH
CF ₃	O-acyl	Br	O	6-Methylcytosine	Br	OH
CF ₃	O-acyl	Br	O	8-Methyladenine	Br	OH
CF ₃	O-acyl	Br	O	8-Methylhypoxanthine	Br	OH
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	Br	OH
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	Br	OH
CF ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	Br	OH
CF ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	Br	OH
CF ₃	O-acyl	Br	O	2-Amino-8-methyladenine	Br	OH
CF ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	Br	OH
CF ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	Br	OH
CF ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	Br	OH
CF ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	Br	OH
CF ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	OH
CF ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	OH
CF ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	Br	OH
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	Br	OH
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	Br	OH
CF ₃	O-acyl	Br	O	6-Methylthymine	Cl	H
CF ₃	O-acyl	Br	O	6-Methyluracil	Cl	H
CF ₃	O-acyl	Br	O	8-Methylguanine	Cl	H
CF ₃	O-acyl	Br	O	6-Methylcytosine	Cl	H
CF ₃	O-acyl	Br	O	8-Methyladenine	Cl	H
CF ₃	O-acyl	Br	O	8-Methylhypoxanthine	Cl	H
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	Cl	H
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	Cl	H
CF ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	Cl	H
CF ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	Cl	H
CF ₃	O-acyl	Br	O	2-Amino-8-methyladenine	Cl	H
CF ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	Cl	H
CF ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	Cl	H
CF ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	Cl	H
CF ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	Cl	H
CF ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	H
CF ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	H
CF ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	Cl	H
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	Cl	H
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	Cl	H
CF ₃	O-acyl	Br	O	6-Methylthymine	Cl	O-amino acid
CF ₃	O-acyl	Br	O	6-Methyluracil	Cl	O-amino acid
CF ₃	O-acyl	Br	O	8-Methylguanine	Cl	O-amino acid
CF ₃	O-acyl	Br	O	6-Methylcytosine	Cl	O-amino acid
CF ₃	O-acyl	Br	O	8-Methyladenine	Cl	O-amino acid
CF ₃	O-acyl	Br	O	8-Methylhypoxanthine	Cl	O-amino acid
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CF ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	O-acyl	Br	O	2-Amino-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	Cl	O-amino acid

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CF ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CF ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CF ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	O-acyl	Br	O	6-Methylthymine	Cl	O-acyl
CF ₃	O-acyl	Br	O	6-Methyluracil	Cl	O-acyl
CF ₃	O-acyl	Br	O	8-Methylguanine	Cl	O-acyl
CF ₃	O-acyl	Br	O	6-Methylcytosine	Cl	O-acyl
CF ₃	O-acyl	Br	O	8-Methyladenine	Cl	O-acyl
CF ₃	O-acyl	Br	O	8-Methylhypoxanthine	Cl	O-acyl
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	Cl	O-acyl
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CF ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-acyl	Br	O	2-Amino-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	Cl	O-acyl
CF ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CF ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CF ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-acyl	Br	O	6-Methylthymine	Cl	OH
CF ₃	O-acyl	Br	O	6-Methyluracil	Cl	OH
CF ₃	O-acyl	Br	O	8-Methylguanine	Cl	OH
CF ₃	O-acyl	Br	O	6-Methylcytosine	Cl	OH
CF ₃	O-acyl	Br	O	8-Methyladenine	Cl	OH
CF ₃	O-acyl	Br	O	8-Methylhypoxanthine	Cl	OH
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	Cl	OH
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	Cl	OH
CF ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	Cl	OH
CF ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	Cl	OH
CF ₃	O-acyl	Br	O	2-Amino-8-methyladenine	Cl	OH
CF ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	Cl	OH
CF ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	Cl	OH
CF ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	Cl	OH
CF ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	Cl	OH
CF ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	OH
CF ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	OH
CF ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	Cl	OH
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	Cl	OH
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	Cl	OH
CF ₃	O-acyl	Br	O	6-Methylthymine	H	H
CF ₃	O-acyl	Br	O	6-Methyluracil	H	H
CF ₃	O-acyl	Br	O	8-Methylguanine	H	H
CF ₃	O-acyl	Br	O	6-Methylcytosine	H	H
CF ₃	O-acyl	Br	O	8-Methyladenine	H	H
CF ₃	O-acyl	Br	O	8-Methylhypoxanthine	H	H
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	H	H
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	H	H
CF ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	H	H
CF ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	H	H
CF ₃	O-acyl	Br	O	2-Amino-8-methyladenine	H	H
CF ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	H	H
CF ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	H	H
CF ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	H	H
CF ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	H	H
CF ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	H
CF ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	H	H
CF ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	H	H
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	H	H
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	H	H
CF ₃	O-acyl	Br	O	6-Methylthymine	H	O-amino acid
CF ₃	O-acyl	Br	O	6-Methyluracil	H	O-amino acid
CF ₃	O-acyl	Br	O	8-Methylguanine	H	O-amino acid
CF ₃	O-acyl	Br	O	6-Methylcytosine	H	O-amino acid
CF ₃	O-acyl	Br	O	8-Methyladenine	H	O-amino acid

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	Br	O	8-Methylhypoxanthine	H	O-amino acid
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	H	O-amino acid
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	H	O-amino acid
CF ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	H	O-amino acid
CF ₃	O-acyl	Br	O	2-Amino-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	H	O-amino acid
CF ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	H	O-amino acid
CF ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	H	O-amino acid
CF ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-amino acid
CF ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	H	O-amino acid
CF ₃	O-acyl	Br	O	6-Methylthymine	H	O-acyl
CF ₃	O-acyl	Br	O	6-Methyluracil	H	O-acyl
CF ₃	O-acyl	Br	O	8-Methylguanine	H	O-acyl
CF ₃	O-acyl	Br	O	6-Methylcytosine	H	O-acyl
CF ₃	O-acyl	Br	O	8-Methyladenine	H	O-acyl
CF ₃	O-acyl	Br	O	8-Methylhypoxanthine	H	O-acyl
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	H	O-acyl
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	H	O-acyl
CF ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	H	O-acyl
CF ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	H	O-acyl
CF ₃	O-acyl	Br	O	2-Amino-8-methyladenine	H	O-acyl
CF ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	H	O-acyl
CF ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	H	O-acyl
CF ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	H	O-acyl
CF ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	H	O-acyl
CF ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-acyl
CF ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-acyl
CF ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	H	O-acyl
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	H	O-acyl
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	H	O-acyl
CF ₃	O-acyl	Br	O	6-Methylthymine	H	OH
CF ₃	O-acyl	Br	O	6-Methyluracil	H	OH
CF ₃	O-acyl	Br	O	8-Methylguanine	H	OH
CF ₃	O-acyl	Br	O	6-Methylcytosine	H	OH
CF ₃	O-acyl	Br	O	8-Methyladenine	H	OH
CF ₃	O-acyl	Br	O	8-Methylhypoxanthine	H	OH
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	H	OH
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	H	OH
CF ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	H	OH
CF ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	H	OH
CF ₃	O-acyl	Br	O	2-Amino-8-methyladenine	H	OH
CF ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	H	OH
CF ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	H	OH
CF ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	H	OH
CF ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	H	OH
CF ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	OH
CF ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	H	OH
CF ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	H	OH
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	H	OH
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	H	OH
CF ₃	O-acyl	Br	O	6-Methylthymine	OH	H
CF ₃	O-acyl	Br	O	6-Methyluracil	OH	H
CF ₃	O-acyl	Br	O	8-Methylguanine	OH	H
CF ₃	O-acyl	Br	O	6-Methylcytosine	OH	H
CF ₃	O-acyl	Br	O	8-Methyladenine	OH	H
CF ₃	O-acyl	Br	O	8-Methylhypoxanthine	OH	H
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	OH	H
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	OH	H
CF ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	OH	H
CF ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	OH	H
CF ₃	O-acyl	Br	O	2-Amino-8-methyladenine	OH	H
CF ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	OH	H
CF ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	OH	H
CF ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	OH	H
CF ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	OH	H
CF ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	OH	H
CF ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	OH	H
CF ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	OH	H
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	OH	H

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	OH	H
CF ₃	O-acyl	Cl	O	6-Methylthymine	F	H
CF ₃	O-acyl	Cl	O	6-Methyluracil	F	H
CF ₃	O-acyl	Cl	O	8-Methylguanine	F	H
CF ₃	O-acyl	Cl	O	6-Methylcytosine	F	H
CF ₃	O-acyl	Cl	O	8-Methyladenine	F	H
CF ₃	O-acyl	Cl	O	8-Methylhypoxanthine	F	H
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	F	H
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	F	H
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	F	H
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	F	H
CF ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	F	H
CF ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	F	H
CF ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	F	H
CF ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	F	H
CF ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	F	H
CF ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	H
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	F	H
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	F	H
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methyladenine	F	H
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methylhypoxanthine	F	H
CF ₃	O-acyl	Cl	O	6-Methylthymine	F	O-amino acid
CF ₃	O-acyl	Cl	O	6-Methyluracil	F	O-amino acid
CF ₃	O-acyl	Cl	O	8-Methylguanine	F	O-amino acid
CF ₃	O-acyl	Cl	O	6-Methylcytosine	F	O-amino acid
CF ₃	O-acyl	Cl	O	8-Methyladenine	F	O-amino acid
CF ₃	O-acyl	Cl	O	8-Methylhypoxanthine	F	O-amino acid
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	F	O-amino acid
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	F	O-amino acid
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	F	O-amino acid
CF ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	F	O-amino acid
CF ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-acyl	Cl	O	6-Methylthymine	F	O-acyl
CF ₃	O-acyl	Cl	O	6-Methyluracil	F	O-acyl
CF ₃	O-acyl	Cl	O	8-Methylguanine	F	O-acyl
CF ₃	O-acyl	Cl	O	6-Methylcytosine	F	O-acyl
CF ₃	O-acyl	Cl	O	8-Methyladenine	F	O-acyl
CF ₃	O-acyl	Cl	O	8-Methylhypoxanthine	F	O-acyl
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	F	O-acyl
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	F	O-acyl
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	F	O-acyl
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CF ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	F	O-acyl
CF ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	F	O-acyl
CF ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	F	O-acyl
CF ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	F	O-acyl
CF ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	F	O-acyl
CF ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methyladenine	F	O-acyl
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methylhypoxanthine	F	O-acyl
CF ₃	O-acyl	Cl	O	6-Methylthymine	F	OH
CF ₃	O-acyl	Cl	O	6-Methyluracil	F	OH
CF ₃	O-acyl	Cl	O	8-Methylguanine	F	OH
CF ₃	O-acyl	Cl	O	6-Methylcytosine	F	OH
CF ₃	O-acyl	Cl	O	8-Methyladenine	F	OH
CF ₃	O-acyl	Cl	O	8-Methylhypoxanthine	F	OH
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	F	OH
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	F	OH
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	F	OH
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	F	OH
CF ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	F	OH
CF ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	F	OH

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	F	OH
CF ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	F	OH
CF ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	F	OH
CF ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	OH
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	F	OH
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	F	OH
CF ₃	O-acyl	Cl	O	2-N-acetyl-amino-8-methyladenine	F	OH
CF ₃	O-acyl	Cl	O	2-N-acetyl-amino-8-methylhypoxanthine	F	OH
CF ₃	O-acyl	Cl	O	6-Methylthymine	Br	H
CF ₃	O-acyl	Cl	O	6-Methyluracil	Br	H
CF ₃	O-acyl	Cl	O	8-Methylguanine	Br	H
CF ₃	O-acyl	Cl	O	6-Methylcytosine	Br	H
CF ₃	O-acyl	Cl	O	8-Methyladenine	Br	H
CF ₃	O-acyl	Cl	O	8-Methylhypoxanthine	Br	H
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	Br	H
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	Br	H
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	Br	H
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	Br	H
CF ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	Br	H
CF ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	Br	H
CF ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	Br	H
CF ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	Br	H
CF ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	Br	H
CF ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	H
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	H
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Br	H
CF ₃	O-acyl	Cl	O	2-N-acetyl-amino-8-methyladenine	Br	H
CF ₃	O-acyl	Cl	O	2-N-acetyl-amino-8-methylhypoxanthine	Br	H
CF ₃	O-acyl	Cl	O	6-Methylthymine	Br	O-amino acid
CF ₃	O-acyl	Cl	O	6-Methyluracil	Br	O-amino acid
CF ₃	O-acyl	Cl	O	8-Methylguanine	Br	O-amino acid
CF ₃	O-acyl	Cl	O	6-Methylcytosine	Br	O-amino acid
CF ₃	O-acyl	Cl	O	8-Methyladenine	Br	O-amino acid
CF ₃	O-acyl	Cl	O	8-Methylhypoxanthine	Br	O-amino acid
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	Br	O-amino acid
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	Br	O-amino acid
CF ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CF ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	Cl	O	2-N-acetyl-amino-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	Cl	O	2-N-acetyl-amino-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-acyl	Cl	O	6-Methylthymine	Br	O-acyl
CF ₃	O-acyl	Cl	O	6-Methyluracil	Br	O-acyl
CF ₃	O-acyl	Cl	O	8-Methylguanine	Br	O-acyl
CF ₃	O-acyl	Cl	O	6-Methylcytosine	Br	O-acyl
CF ₃	O-acyl	Cl	O	8-Methyladenine	Br	O-acyl
CF ₃	O-acyl	Cl	O	8-Methylhypoxanthine	Br	O-acyl
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	Br	O-acyl
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	Br	O-acyl
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	Br	O-acyl
CF ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	Br	O-acyl
CF ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	Cl	O	2-N-acetyl-amino-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	Cl	O	2-N-acetyl-amino-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-acyl	Cl	O	6-Methylthymine	Br	OH
CF ₃	O-acyl	Cl	O	6-Methyluracil	Br	OH
CF ₃	O-acyl	Cl	O	8-Methylguanine	Br	OH
CF ₃	O-acyl	Cl	O	6-Methylcytosine	Br	OH
CF ₃	O-acyl	Cl	O	8-Methyladenine	Br	OH

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	Cl	O	8-Methylhypoxanthine	Br	OH
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	Br	OH
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	Br	OH
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	Br	OH
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	Br	OH
CF ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	Br	OH
CF ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	Br	OH
CF ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	Br	OH
CF ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	Br	OH
CF ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	Br	OH
CF ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	OH
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	OH
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Br	OH
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methyladenine	Br	OH
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Br	OH
CF ₃	O-acyl	Cl	O	6-Methylthymine	Cl	H
CF ₃	O-acyl	Cl	O	6-Methyluracil	Cl	H
CF ₃	O-acyl	Cl	O	8-Methylguanine	Cl	H
CF ₃	O-acyl	Cl	O	6-Methylcytosine	Cl	H
CF ₃	O-acyl	Cl	O	8-Methyladenine	Cl	H
CF ₃	O-acyl	Cl	O	8-Methylhypoxanthine	Cl	H
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	Cl	H
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	Cl	H
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	Cl	H
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	Cl	H
CF ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	Cl	H
CF ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	Cl	H
CF ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	Cl	H
CF ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	Cl	H
CF ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	Cl	H
CF ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	H
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	H
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Cl	H
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methyladenine	Cl	H
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Cl	H
CF ₃	O-acyl	Cl	O	6-Methylthymine	Cl	O-amino acid
CF ₃	O-acyl	Cl	O	6-Methyluracil	Cl	O-amino acid
CF ₃	O-acyl	Cl	O	8-Methylguanine	Cl	O-amino acid
CF ₃	O-acyl	Cl	O	6-Methylcytosine	Cl	O-amino acid
CF ₃	O-acyl	Cl	O	8-Methyladenine	Cl	O-amino acid
CF ₃	O-acyl	Cl	O	8-Methylhypoxanthine	Cl	O-amino acid
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CF ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CF ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	O-acyl	Cl	O	6-Methylthymine	Cl	O-acyl
CF ₃	O-acyl	Cl	O	6-Methyluracil	Cl	O-acyl
CF ₃	O-acyl	Cl	O	8-Methylguanine	Cl	O-acyl
CF ₃	O-acyl	Cl	O	6-Methylcytosine	Cl	O-acyl
CF ₃	O-acyl	Cl	O	8-Methyladenine	Cl	O-acyl
CF ₃	O-acyl	Cl	O	8-Methylhypoxanthine	Cl	O-acyl
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	Cl	O-acyl
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	Cl	O-acyl
CF ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CF ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methyladenine	Cl	O-acyl

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-acyl	Cl	O	6-Methylthymine	Cl	OH
CF ₃	O-acyl	Cl	O	6-Methyluracil	Cl	OH
CF ₃	O-acyl	Cl	O	8-Methylguanine	Cl	OH
CF ₃	O-acyl	Cl	O	6-Methylcytosine	Cl	OH
CF ₃	O-acyl	Cl	O	8-Methyladenine	Cl	OH
CF ₃	O-acyl	Cl	O	8-Methylhypoxanthine	Cl	OH
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	Cl	OH
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	Cl	OH
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	Cl	OH
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	Cl	OH
CF ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	Cl	OH
CF ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	Cl	OH
CF ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	Cl	OH
CF ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	Cl	OH
CF ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	Cl	OH
CF ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	OH
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	OH
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Cl	OH
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methyladenine	Cl	OH
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Cl	OH
CF ₃	O-acyl	Cl	O	6-Methylthymine	H	H
CF ₃	O-acyl	Cl	O	6-Methyluracil	H	H
CF ₃	O-acyl	Cl	O	8-Methylguanine	H	H
CF ₃	O-acyl	Cl	O	6-Methylcytosine	H	H
CF ₃	O-acyl	Cl	O	8-Methyladenine	H	H
CF ₃	O-acyl	Cl	O	8-Methylhypoxanthine	H	H
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	H	H
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	H	H
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	H	H
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	H	H
CF ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	H	H
CF ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	H	H
CF ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	H	H
CF ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	H	H
CF ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	H	H
CF ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	H
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	H	H
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	H	H
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methyladenine	H	H
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methylhypoxanthine	H	H
CF ₃	O-acyl	Cl	O	6-Methylthymine	H	O-amino acid
CF ₃	O-acyl	Cl	O	6-Methyluracil	H	O-amino acid
CF ₃	O-acyl	Cl	O	8-Methylguanine	H	O-amino acid
CF ₃	O-acyl	Cl	O	6-Methylcytosine	H	O-amino acid
CF ₃	O-acyl	Cl	O	8-Methyladenine	H	O-amino acid
CF ₃	O-acyl	Cl	O	8-Methylhypoxanthine	H	O-amino acid
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	H	O-amino acid
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	H	O-amino acid
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	H	O-amino acid
CF ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	H	O-amino acid
CF ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	H	O-amino acid
CF ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	H	O-amino acid
CF ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-amino acid
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methylhypoxanthine	H	O-amino acid
CF ₃	O-acyl	Cl	O	6-Methylthymine	H	O-acyl
CF ₃	O-acyl	Cl	O	6-Methyluracil	H	O-acyl
CF ₃	O-acyl	Cl	O	8-Methylguanine	H	O-acyl
CF ₃	O-acyl	Cl	O	6-Methylcytosine	H	O-acyl
CF ₃	O-acyl	Cl	O	8-Methyladenine	H	O-acyl
CF ₃	O-acyl	Cl	O	8-Methylhypoxanthine	H	O-acyl
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	H	O-acyl
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	H	O-acyl
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	H	O-acyl
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	H	O-acyl
CF ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	H	O-acyl
CF ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	H	O-acyl

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	H	O-acyl
CF ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	H	O-acyl
CF ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	H	O-acyl
CF ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-acyl
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-acyl
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	H	O-acyl
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methyladenine	H	O-acyl
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methylhypoxanthine	H	O-acyl
CF ₃	O-acyl	Cl	O	6-Methylthymine	H	OH
CF ₃	O-acyl	Cl	O	6-Methyluracil	H	OH
CF ₃	O-acyl	Cl	O	8-Methylguanine	H	OH
CF ₃	O-acyl	Cl	O	6-Methylcytosine	H	OH
CF ₃	O-acyl	Cl	O	8-Methyladenine	H	OH
CF ₃	O-acyl	Cl	O	8-Methylhypoxanthine	H	OH
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	H	OH
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	H	OH
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	H	OH
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	H	OH
CF ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	H	OH
CF ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	H	OH
CF ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	H	OH
CF ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	H	OH
CF ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	H	OH
CF ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	OH
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	H	OH
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	H	OH
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methyladenine	H	OH
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methylhypoxanthine	H	OH
CF ₃	O-acyl	Cl	O	6-Methylthymine	OH	H
CF ₃	O-acyl	Cl	O	6-Methyluracil	OH	H
CF ₃	O-acyl	Cl	O	8-Methylguanine	OH	H
CF ₃	O-acyl	Cl	O	6-Methylcytosine	OH	H
CF ₃	O-acyl	Cl	O	8-Methyladenine	OH	H
CF ₃	O-acyl	Cl	O	8-Methylhypoxanthine	OH	H
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	OH	H
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	OH	H
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	OH	H
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	OH	H
CF ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	OH	H
CF ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	OH	H
CF ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	OH	H
CF ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	OH	H
CF ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	OH	H
CF ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	OH	H
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	OH	H
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	OH	H
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methyladenine	OH	H
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methylhypoxanthine	OH	H
CF ₃	O-acyl	H	O	6-Methylthymine	F	H
CF ₃	O-acyl	H	O	6-Methyluracil	F	H
CF ₃	O-acyl	H	O	8-Methylguanine	F	H
CF ₃	O-acyl	H	O	6-Methylcytosine	F	H
CF ₃	O-acyl	H	O	8-Methyladenine	F	H
CF ₃	O-acyl	H	O	8-Methylhypoxanthine	F	H
CF ₃	O-acyl	H	O	5-Fluoro-6-Methyluracil	F	H
CF ₃	O-acyl	H	O	5-Fluoro-6-Methylcytosine	F	H
CF ₃	O-acyl	H	O	2-Fluoro-8-methyladenine	F	H
CF ₃	O-acyl	H	O	2-Fluoro-8-methylhypoxanthine	F	H
CF ₃	O-acyl	H	O	2-Amino-8-methyladenine	F	H
CF ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	F	H
CF ₃	O-acyl	H	O	2-N-acetyl-8-methylguanine	F	H
CF ₃	O-acyl	H	O	4-N-acetyl-8-methylcytosine	F	H
CF ₃	O-acyl	H	O	6-N-acetyl-8-methyladenine	F	H
CF ₃	O-acyl	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	H
CF ₃	O-acyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	F	H
CF ₃	O-acyl	H	O	6-N-acetyl-2-amino-8-methyladenine	F	H
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methyladenine	F	H
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methylhypoxanthine	F	H
CF ₃	O-acyl	H	O	6-Methylthymine	F	O-amino acid
CF ₃	O-acyl	H	O	6-Methyluracil	F	O-amino acid
CF ₃	O-acyl	H	O	8-Methylguanine	F	O-amino acid
CF ₃	O-acyl	H	O	6-Methylcytosine	F	O-amino acid
CF ₃	O-acyl	H	O	8-Methyladenine	F	O-amino acid

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	H	O	8-Methylhypoxanthine	F	O-amino acid
CF ₃	O-acyl	H	O	5-Fluoro-6-Methyluracil	F	O-amino acid
CF ₃	O-acyl	H	O	5-Fluoro-6-Methylcytosine	F	O-amino acid
CF ₃	O-acyl	H	O	2-Fluoro-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	H	O	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-acyl	H	O	2-Amino-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-acyl	H	O	2-N-acetyl-8-methylguanine	F	O-amino acid
CF ₃	O-acyl	H	O	4-N-acetyl-8-methylcytosine	F	O-amino acid
CF ₃	O-acyl	H	O	6-N-acetyl-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CF ₃	O-acyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	H	O	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-acyl	H	O	6-Methylthymine	F	O-acyl
CF ₃	O-acyl	H	O	6-Methyluracil	F	O-acyl
CF ₃	O-acyl	H	O	8-Methylguanine	F	O-acyl
CF ₃	O-acyl	H	O	6-Methylcytosine	F	O-acyl
CF ₃	O-acyl	H	O	8-Methyladenine	F	O-acyl
CF ₃	O-acyl	H	O	8-Methylhypoxanthine	F	O-acyl
CF ₃	O-acyl	H	O	5-Fluoro-6-Methyluracil	F	O-acyl
CF ₃	O-acyl	H	O	5-Fluoro-6-Methylcytosine	F	O-acyl
CF ₃	O-acyl	H	O	2-Fluoro-8-methyladenine	F	O-acyl
CF ₃	O-acyl	H	O	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CF ₃	O-acyl	H	O	2-Amino-8-methyladenine	F	O-acyl
CF ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	F	O-acyl
CF ₃	O-acyl	H	O	2-N-acetyl-8-methylguanine	F	O-acyl
CF ₃	O-acyl	H	O	4-N-acetyl-8-methylcytosine	F	O-acyl
CF ₃	O-acyl	H	O	6-N-acetyl-8-methyladenine	F	O-acyl
CF ₃	O-acyl	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CF ₃	O-acyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CF ₃	O-acyl	H	O	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methyladenine	F	O-acyl
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methylhypoxanthine	F	O-acyl
CF ₃	O-acyl	H	O	6-Methylthymine	F	OH
CF ₃	O-acyl	H	O	6-Methyluracil	F	OH
CF ₃	O-acyl	H	O	8-Methylguanine	F	OH
CF ₃	O-acyl	H	O	6-Methylcytosine	F	OH
CF ₃	O-acyl	H	O	8-Methyladenine	F	OH
CF ₃	O-acyl	H	O	8-Methylhypoxanthine	F	OH
CF ₃	O-acyl	H	O	5-Fluoro-6-Methyluracil	F	OH
CF ₃	O-acyl	H	O	5-Fluoro-6-Methylcytosine	F	OH
CF ₃	O-acyl	H	O	2-Fluoro-8-methyladenine	F	OH
CF ₃	O-acyl	H	O	2-Fluoro-8-methylhypoxanthine	F	OH
CF ₃	O-acyl	H	O	2-Amino-8-methyladenine	F	OH
CF ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	F	OH
CF ₃	O-acyl	H	O	2-N-acetyl-8-methylguanine	F	OH
CF ₃	O-acyl	H	O	4-N-acetyl-8-methylcytosine	F	OH
CF ₃	O-acyl	H	O	6-N-acetyl-8-methyladenine	F	OH
CF ₃	O-acyl	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	OH
CF ₃	O-acyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	F	OH
CF ₃	O-acyl	H	O	6-N-acetyl-2-amino-8-methyladenine	F	OH
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methyladenine	F	OH
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methylhypoxanthine	F	OH
CF ₃	O-acyl	H	O	6-Methylthymine	Br	H
CF ₃	O-acyl	H	O	6-Methyluracil	Br	H
CF ₃	O-acyl	H	O	8-Methylguanine	Br	H
CF ₃	O-acyl	H	O	6-Methylcytosine	Br	H
CF ₃	O-acyl	H	O	8-Methyladenine	Br	H
CF ₃	O-acyl	H	O	8-Methylhypoxanthine	Br	H
CF ₃	O-acyl	H	O	5-Fluoro-6-Methyluracil	Br	H
CF ₃	O-acyl	H	O	5-Fluoro-6-Methylcytosine	Br	H
CF ₃	O-acyl	H	O	2-Fluoro-8-methyladenine	Br	H
CF ₃	O-acyl	H	O	2-Fluoro-8-methylhypoxanthine	Br	H
CF ₃	O-acyl	H	O	2-Amino-8-methyladenine	Br	H
CF ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	Br	H
CF ₃	O-acyl	H	O	2-N-acetyl-8-methylguanine	Br	H
CF ₃	O-acyl	H	O	4-N-acetyl-8-methylcytosine	Br	H
CF ₃	O-acyl	H	O	6-N-acetyl-8-methyladenine	Br	H
CF ₃	O-acyl	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	H
CF ₃	O-acyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	H
CF ₃	O-acyl	H	O	6-N-acetyl-2-amino-8-methyladenine	Br	H
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methyladenine	Br	H

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methylhypoxanthine	Br	H
CF ₃	O-acyl	H	O	6-Methylthymine	Br	O-amino acid
CF ₃	O-acyl	H	O	6-Methyluracil	Br	O-amino acid
CF ₃	O-acyl	H	O	8-Methylguanine	Br	O-amino acid
CF ₃	O-acyl	H	O	6-Methylcytosine	Br	O-amino acid
CF ₃	O-acyl	H	O	8-Methyladenine	Br	O-amino acid
CF ₃	O-acyl	H	O	8-Methylhypoxanthine	Br	O-amino acid
CF ₃	O-acyl	H	O	5-Fluoro-6-Methyluracil	Br	O-amino acid
CF ₃	O-acyl	H	O	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CF ₃	O-acyl	H	O	2-Fluoro-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	H	O	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-acyl	H	O	2-Amino-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-acyl	H	O	2-N-acetyl-8-methylguanine	Br	O-amino acid
CF ₃	O-acyl	H	O	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CF ₃	O-acyl	H	O	6-N-acetyl-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CF ₃	O-acyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	H	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-acyl	H	O	6-Methylthymine	Br	O-acyl
CF ₃	O-acyl	H	O	6-Methyluracil	Br	O-acyl
CF ₃	O-acyl	H	O	8-Methylguanine	Br	O-acyl
CF ₃	O-acyl	H	O	6-Methylcytosine	Br	O-acyl
CF ₃	O-acyl	H	O	8-Methyladenine	Br	O-acyl
CF ₃	O-acyl	H	O	8-Methylhypoxanthine	Br	O-acyl
CF ₃	O-acyl	H	O	5-Fluoro-6-Methyluracil	Br	O-acyl
CF ₃	O-acyl	H	O	5-Fluoro-6-Methylcytosine	Br	O-acyl
CF ₃	O-acyl	H	O	2-Fluoro-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	H	O	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-acyl	H	O	2-Amino-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-acyl	H	O	2-N-acetyl-8-methylguanine	Br	O-acyl
CF ₃	O-acyl	H	O	4-N-acetyl-8-methylcytosine	Br	O-acyl
CF ₃	O-acyl	H	O	6-N-acetyl-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CF ₃	O-acyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	H	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-acyl	H	O	6-Methylthymine	Br	OH
CF ₃	O-acyl	H	O	6-Methyluracil	Br	OH
CF ₃	O-acyl	H	O	8-Methylguanine	Br	OH
CF ₃	O-acyl	H	O	6-Methylcytosine	Br	OH
CF ₃	O-acyl	H	O	8-Methyladenine	Br	OH
CF ₃	O-acyl	H	O	8-Methylhypoxanthine	Br	OH
CF ₃	O-acyl	H	O	5-Fluoro-6-Methyluracil	Br	OH
CF ₃	O-acyl	H	O	5-Fluoro-6-Methylcytosine	Br	OH
CF ₃	O-acyl	H	O	2-Fluoro-8-methyladenine	Br	OH
CF ₃	O-acyl	H	O	2-Fluoro-8-methylhypoxanthine	Br	OH
CF ₃	O-acyl	H	O	2-Amino-8-methyladenine	Br	OH
CF ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	Br	OH
CF ₃	O-acyl	H	O	2-N-acetyl-8-methylguanine	Br	OH
CF ₃	O-acyl	H	O	4-N-acetyl-8-methylcytosine	Br	OH
CF ₃	O-acyl	H	O	6-N-acetyl-8-methyladenine	Br	OH
CF ₃	O-acyl	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	OH
CF ₃	O-acyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	OH
CF ₃	O-acyl	H	O	6-N-acetyl-2-amino-8-methyladenine	Br	OH
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methyladenine	Br	OH
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methylhypoxanthine	Br	OH
CF ₃	O-acyl	H	O	6-Methylthymine	Cl	H
CF ₃	O-acyl	H	O	6-Methyluracil	Cl	H
CF ₃	O-acyl	H	O	8-Methylguanine	Cl	H
CF ₃	O-acyl	H	O	6-Methylcytosine	Cl	H
CF ₃	O-acyl	H	O	8-Methyladenine	Cl	H
CF ₃	O-acyl	H	O	8-Methylhypoxanthine	Cl	H
CF ₃	O-acyl	H	O	5-Fluoro-6-Methyluracil	Cl	H
CF ₃	O-acyl	H	O	5-Fluoro-6-Methylcytosine	Cl	H
CF ₃	O-acyl	H	O	2-Fluoro-8-methyladenine	Cl	H
CF ₃	O-acyl	H	O	2-Fluoro-8-methylhypoxanthine	Cl	H
CF ₃	O-acyl	H	O	2-Amino-8-methyladenine	Cl	H
CF ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	Cl	H

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	H	O	2-N-acetyl-8-methylguanine	Cl	H
CF ₃	O-acyl	H	O	4-N-acetyl-8-methylcytosine	Cl	H
CF ₃	O-acyl	H	O	6-N-acetyl-8-methyladenine	Cl	H
CF ₃	O-acyl	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	H
CF ₃	O-acyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	H
CF ₃	O-acyl	H	O	6-N-acetyl-2-amino-8-methyladenine	Cl	H
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methyladenine	Cl	H
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methylhypoxanthine	Cl	H
CF ₃	O-acyl	H	O	6-Methylthymine	Cl	O-amino acid
CF ₃	O-acyl	H	O	6-Methyluracil	Cl	O-amino acid
CF ₃	O-acyl	H	O	8-Methylguanine	Cl	O-amino acid
CF ₃	O-acyl	H	O	6-Methylcytosine	Cl	O-amino acid
CF ₃	O-acyl	H	O	8-Methyladenine	Cl	O-amino acid
CF ₃	O-acyl	H	O	8-Methylhypoxanthine	Cl	O-amino acid
CF ₃	O-acyl	H	O	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CF ₃	O-acyl	H	O	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CF ₃	O-acyl	H	O	2-Fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	H	O	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	O-acyl	H	O	2-Amino-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	O-acyl	H	O	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CF ₃	O-acyl	H	O	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CF ₃	O-acyl	H	O	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CF ₃	O-acyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	H	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	O-acyl	H	O	6-Methylthymine	Cl	O-acyl
CF ₃	O-acyl	H	O	6-Methyluracil	Cl	O-acyl
CF ₃	O-acyl	H	O	8-Methylguanine	Cl	O-acyl
CF ₃	O-acyl	H	O	6-Methylcytosine	Cl	O-acyl
CF ₃	O-acyl	H	O	8-Methyladenine	Cl	O-acyl
CF ₃	O-acyl	H	O	8-Methylhypoxanthine	Cl	O-acyl
CF ₃	O-acyl	H	O	5-Fluoro-6-Methyluracil	Cl	O-acyl
CF ₃	O-acyl	H	O	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CF ₃	O-acyl	H	O	2-Fluoro-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	H	O	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-acyl	H	O	2-Amino-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-acyl	H	O	2-N-acetyl-8-methylguanine	Cl	O-acyl
CF ₃	O-acyl	H	O	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CF ₃	O-acyl	H	O	6-N-acetyl-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CF ₃	O-acyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	H	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-acyl	H	O	6-Methylthymine	Cl	OH
CF ₃	O-acyl	H	O	6-Methyluracil	Cl	OH
CF ₃	O-acyl	H	O	8-Methylguanine	Cl	OH
CF ₃	O-acyl	H	O	6-Methylcytosine	Cl	OH
CF ₃	O-acyl	H	O	8-Methyladenine	Cl	OH
CF ₃	O-acyl	H	O	8-Methylhypoxanthine	Cl	OH
CF ₃	O-acyl	H	O	5-Fluoro-6-Methyluracil	Cl	OH
CF ₃	O-acyl	H	O	5-Fluoro-6-Methylcytosine	Cl	OH
CF ₃	O-acyl	H	O	2-Fluoro-8-methyladenine	Cl	OH
CF ₃	O-acyl	H	O	2-Fluoro-8-methylhypoxanthine	Cl	OH
CF ₃	O-acyl	H	O	2-Amino-8-methyladenine	Cl	OH
CF ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	Cl	OH
CF ₃	O-acyl	H	O	2-N-acetyl-8-methylguanine	Cl	OH
CF ₃	O-acyl	H	O	4-N-acetyl-8-methylcytosine	Cl	OH
CF ₃	O-acyl	H	O	6-N-acetyl-8-methyladenine	Cl	OH
CF ₃	O-acyl	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	OH
CF ₃	O-acyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	OH
CF ₃	O-acyl	H	O	6-N-acetyl-2-amino-8-methyladenine	Cl	OH
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methyladenine	Cl	OH
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methylhypoxanthine	Cl	OH
CF ₃	O-acyl	H	O	6-Methylthymine	H	H
CF ₃	O-acyl	H	O	6-Methyluracil	H	H
CF ₃	O-acyl	H	O	8-Methylguanine	H	H
CF ₃	O-acyl	H	O	6-Methylcytosine	H	H
CF ₃	O-acyl	H	O	8-Methyladenine	H	H

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	H	O	8-Methylhypoxanthine	H	H
CF ₃	O-acyl	H	O	5-Fluoro-6-Methyluracil	H	H
CF ₃	O-acyl	H	O	5-Fluoro-6-Methylcytosine	H	H
CF ₃	O-acyl	H	O	2-Fluoro-8-methyladenine	H	H
CF ₃	O-acyl	H	O	2-Fluoro-8-methylhypoxanthine	H	H
CF ₃	O-acyl	H	O	2-Amino-8-methyladenine	H	H
CF ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	H	H
CF ₃	O-acyl	H	O	2-N-acetyl-8-methylguanine	H	H
CF ₃	O-acyl	H	O	4-N-acetyl-8-methylcytosine	H	H
CF ₃	O-acyl	H	O	6-N-acetyl-8-methyladenine	H	H
CF ₃	O-acyl	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	H
CF ₃	O-acyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	H	H
CF ₃	O-acyl	H	O	6-N-acetyl-2-amino-8-methyladenine	H	H
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methyladenine	H	H
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methylhypoxanthine	H	H
CF ₃	O-acyl	H	O	6-Methylthymine	H	O-amino acid
CF ₃	O-acyl	H	O	6-Methyluracil	H	O-amino acid
CF ₃	O-acyl	H	O	8-Methylguanine	H	O-amino acid
CF ₃	O-acyl	H	O	6-Methylcytosine	H	O-amino acid
CF ₃	O-acyl	H	O	8-Methyladenine	H	O-amino acid
CF ₃	O-acyl	H	O	8-Methylhypoxanthine	H	O-amino acid
CF ₃	O-acyl	H	O	5-Fluoro-6-Methyluracil	H	O-amino acid
CF ₃	O-acyl	H	O	5-Fluoro-6-Methylcytosine	H	O-amino acid
CF ₃	O-acyl	H	O	2-Fluoro-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	H	O	2-Fluoro-8-methylhypoxanthine	H	O-amino acid
CF ₃	O-acyl	H	O	2-Amino-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	H	O-amino acid
CF ₃	O-acyl	H	O	2-N-acetyl-8-methylguanine	H	O-amino acid
CF ₃	O-acyl	H	O	4-N-acetyl-8-methylcytosine	H	O-amino acid
CF ₃	O-acyl	H	O	6-N-acetyl-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-amino acid
CF ₃	O-acyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	H	O	6-N-acetyl-2-amino-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methylhypoxanthine	H	O-amino acid
CF ₃	O-acyl	H	O	6-Methylthymine	H	O-acyl
CF ₃	O-acyl	H	O	6-Methyluracil	H	O-acyl
CF ₃	O-acyl	H	O	8-Methylguanine	H	O-acyl
CF ₃	O-acyl	H	O	6-Methylcytosine	H	O-acyl
CF ₃	O-acyl	H	O	8-Methyladenine	H	O-acyl
CF ₃	O-acyl	H	O	8-Methylhypoxanthine	H	O-acyl
CF ₃	O-acyl	H	O	5-Fluoro-6-Methyluracil	H	O-acyl
CF ₃	O-acyl	H	O	5-Fluoro-6-Methylcytosine	H	O-acyl
CF ₃	O-acyl	H	O	2-Fluoro-8-methyladenine	H	O-acyl
CF ₃	O-acyl	H	O	2-Fluoro-8-methylhypoxanthine	H	O-acyl
CF ₃	O-acyl	H	O	2-Amino-8-methyladenine	H	O-acyl
CF ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	H	O-acyl
CF ₃	O-acyl	H	O	2-N-acetyl-8-methylguanine	H	O-acyl
CF ₃	O-acyl	H	O	4-N-acetyl-8-methylcytosine	H	O-acyl
CF ₃	O-acyl	H	O	6-N-acetyl-8-methyladenine	H	O-acyl
CF ₃	O-acyl	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-acyl
CF ₃	O-acyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-acyl
CF ₃	O-acyl	H	O	6-N-acetyl-2-amino-8-methyladenine	H	O-acyl
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methyladenine	H	O-acyl
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methylhypoxanthine	H	O-acyl
CF ₃	O-acyl	H	O	6-Methylthymine	H	OH
CF ₃	O-acyl	H	O	6-Methyluracil	H	OH
CF ₃	O-acyl	H	O	8-Methylguanine	H	OH
CF ₃	O-acyl	H	O	6-Methylcytosine	H	OH
CF ₃	O-acyl	H	O	8-Methyladenine	H	OH
CF ₃	O-acyl	H	O	8-Methylhypoxanthine	H	OH
CF ₃	O-acyl	H	O	5-Fluoro-6-Methyluracil	H	OH
CF ₃	O-acyl	H	O	5-Fluoro-6-Methylcytosine	H	OH
CF ₃	O-acyl	H	O	2-Fluoro-8-methyladenine	H	OH
CF ₃	O-acyl	H	O	2-Fluoro-8-methylhypoxanthine	H	OH
CF ₃	O-acyl	H	O	2-Amino-8-methyladenine	H	OH
CF ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	H	OH
CF ₃	O-acyl	H	O	2-N-acetyl-8-methylguanine	H	OH
CF ₃	O-acyl	H	O	4-N-acetyl-8-methylcytosine	H	OH
CF ₃	O-acyl	H	O	6-N-acetyl-8-methyladenine	H	OH
CF ₃	O-acyl	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	OH
CF ₃	O-acyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	H	OH
CF ₃	O-acyl	H	O	6-N-acetyl-2-amino-8-methyladenine	H	OH
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methyladenine	H	OH

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methylhypoxanthine	H	OH
CF ₃	O-acyl	H	O	6-Methylthymine	OH	H
CF ₃	O-acyl	H	O	6-Methyluracil	OH	H
CF ₃	O-acyl	H	O	8-Methylguanine	OH	H
CF ₃	O-acyl	H	O	6-Methylcytosine	OH	H
CF ₃	O-acyl	H	O	8-Methyladenine	OH	H
CF ₃	O-acyl	H	O	8-Methylhypoxanthine	OH	H
CF ₃	O-acyl	H	O	5-Fluoro-6-Methyluracil	OH	H
CF ₃	O-acyl	H	O	5-Fluoro-6-Methylcytosine	OH	H
CF ₃	O-acyl	H	O	2-Fluoro-8-methyladenine	OH	H
CF ₃	O-acyl	H	O	2-Fluoro-8-methylhypoxanthine	OH	H
CF ₃	O-acyl	H	O	2-Amino-8-methyladenine	OH	H
CF ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	OH	H
CF ₃	O-acyl	H	O	2-N-acetyl-8-methylguanine	OH	H
CF ₃	O-acyl	H	O	4-N-acetyl-8-methylcytosine	OH	H
CF ₃	O-acyl	H	O	6-N-acetyl-8-methyladenine	OH	H
CF ₃	O-acyl	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	OH	H
CF ₃	O-acyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	OH	H
CF ₃	O-acyl	H	O	6-N-acetyl-2-amino-8-methyladenine	OH	H
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methyladenine	OH	H
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methylhypoxanthine	OH	H
CF ₃	O-amino acid	F	O	6-Methylthymine	F	H
CF ₃	O-amino acid	F	O	6-Methyluracil	F	H
CF ₃	O-amino acid	F	O	8-Methylguanine	F	H
CF ₃	O-amino acid	F	O	6-Methylcytosine	F	H
CF ₃	O-amino acid	F	O	8-Methyladenine	F	H
CF ₃	O-amino acid	F	O	8-Methylhypoxanthine	F	H
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	F	H
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	F	H
CF ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	F	H
CF ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	F	H
CF ₃	O-amino acid	F	O	2-Amino-8-methyladenine	F	H
CF ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	F	H
CF ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	F	H
CF ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	F	H
CF ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	F	H
CF ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	H
CF ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	F	H
CF ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	F	H
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	F	H
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	F	H
CF ₃	O-amino acid	F	O	6-Methylthymine	F	O-amino acid
CF ₃	O-amino acid	F	O	6-Methyluracil	F	O-amino acid
CF ₃	O-amino acid	F	O	8-Methylguanine	F	O-amino acid
CF ₃	O-amino acid	F	O	6-Methylcytosine	F	O-amino acid
CF ₃	O-amino acid	F	O	8-Methyladenine	F	O-amino acid
CF ₃	O-amino acid	F	O	8-Methylhypoxanthine	F	O-amino acid
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	F	O-amino acid
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	F	O-amino acid
CF ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-amino acid	F	O	2-Amino-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	F	O-amino acid
CF ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	F	O-amino acid
CF ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CF ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-amino acid	F	O	6-Methylthymine	F	O-acyl
CF ₃	O-amino acid	F	O	6-Methyluracil	F	O-acyl
CF ₃	O-amino acid	F	O	8-Methylguanine	F	O-acyl
CF ₃	O-amino acid	F	O	6-Methylcytosine	F	O-acyl
CF ₃	O-amino acid	F	O	8-Methyladenine	F	O-acyl
CF ₃	O-amino acid	F	O	8-Methylhypoxanthine	F	O-acyl
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	F	O-acyl
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	F	O-acyl
CF ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CF ₃	O-amino acid	F	O	2-Amino-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	F	O-acyl

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	F	O-acyl
CF ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	F	O-acyl
CF ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CF ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	F	O-acyl
CF ₃	O-amino acid	F	O	6-Methylthymine	F	OH
CF ₃	O-amino acid	F	O	6-Methyluracil	F	OH
CF ₃	O-amino acid	F	O	8-Methylguanine	F	OH
CF ₃	O-amino acid	F	O	6-Methylcytosine	F	OH
CF ₃	O-amino acid	F	O	8-Methyladenine	F	OH
CF ₃	O-amino acid	F	O	8-Methylhypoxanthine	F	OH
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	F	OH
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	F	OH
CF ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	F	OH
CF ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	F	OH
CF ₃	O-amino acid	F	O	2-Amino-8-methyladenine	F	OH
CF ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	F	OH
CF ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	F	OH
CF ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	F	OH
CF ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	F	OH
CF ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	OH
CF ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	F	OH
CF ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	F	OH
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	F	OH
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	F	OH
CF ₃	O-amino acid	F	O	6-Methylthymine	Br	H
CF ₃	O-amino acid	F	O	6-Methyluracil	Br	H
CF ₃	O-amino acid	F	O	8-Methylguanine	Br	H
CF ₃	O-amino acid	F	O	6-Methylcytosine	Br	H
CF ₃	O-amino acid	F	O	8-Methyladenine	Br	H
CF ₃	O-amino acid	F	O	8-Methylhypoxanthine	Br	H
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	Br	H
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	Br	H
CF ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	Br	H
CF ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	Br	H
CF ₃	O-amino acid	F	O	2-Amino-8-methyladenine	Br	H
CF ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	Br	H
CF ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	Br	H
CF ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	Br	H
CF ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	Br	H
CF ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	H
CF ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	H
CF ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	Br	H
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	Br	H
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	Br	H
CF ₃	O-amino acid	F	O	6-Methylthymine	Br	O-amino acid
CF ₃	O-amino acid	F	O	6-Methyluracil	Br	O-amino acid
CF ₃	O-amino acid	F	O	8-Methylguanine	Br	O-amino acid
CF ₃	O-amino acid	F	O	6-Methylcytosine	Br	O-amino acid
CF ₃	O-amino acid	F	O	8-Methyladenine	Br	O-amino acid
CF ₃	O-amino acid	F	O	8-Methylhypoxanthine	Br	O-amino acid
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	Br	O-amino acid
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CF ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-amino acid	F	O	2-Amino-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	Br	O-amino acid
CF ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CF ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CF ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-amino acid	F	O	6-Methylthymine	Br	O-acyl
CF ₃	O-amino acid	F	O	6-Methyluracil	Br	O-acyl
CF ₃	O-amino acid	F	O	8-Methylguanine	Br	O-acyl
CF ₃	O-amino acid	F	O	6-Methylcytosine	Br	O-acyl
CF ₃	O-amino acid	F	O	8-Methyladenine	Br	O-acyl

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-amino acid	F	O	8-Methylhypoxanthine	Br	O-acyl
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	Br	O-acyl
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	Br	O-acyl
CF ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-amino acid	F	O	2-Amino-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	Br	O-acyl
CF ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	Br	O-acyl
CF ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CF ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-amino acid	F	O	6-Methylthymine	Br	OH
CF ₃	O-amino acid	F	O	6-Methyluracil	Br	OH
CF ₃	O-amino acid	F	O	8-Methylguanine	Br	OH
CF ₃	O-amino acid	F	O	6-Methylcytosine	Br	OH
CF ₃	O-amino acid	F	O	8-Methyladenine	Br	OH
CF ₃	O-amino acid	F	O	8-Methylhypoxanthine	Br	OH
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	Br	OH
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	Br	OH
CF ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	Br	OH
CF ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	Br	OH
CF ₃	O-amino acid	F	O	2-Amino-8-methyladenine	Br	OH
CF ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	Br	OH
CF ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	Br	OH
CF ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	Br	OH
CF ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	Br	OH
CF ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	OH
CF ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	OH
CF ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	Br	OH
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	Br	OH
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	Br	OH
CF ₃	O-amino acid	F	O	6-Methylthymine	Cl	H
CF ₃	O-amino acid	F	O	6-Methyluracil	Cl	H
CF ₃	O-amino acid	F	O	8-Methylguanine	Cl	H
CF ₃	O-amino acid	F	O	6-Methylcytosine	Cl	H
CF ₃	O-amino acid	F	O	8-Methyladenine	Cl	H
CF ₃	O-amino acid	F	O	8-Methylhypoxanthine	Cl	H
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	Cl	H
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	Cl	H
CF ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	Cl	H
CF ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	Cl	H
CF ₃	O-amino acid	F	O	2-Amino-8-methyladenine	Cl	H
CF ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	Cl	H
CF ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	Cl	H
CF ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	Cl	H
CF ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	Cl	H
CF ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	H
CF ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	H
CF ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	Cl	H
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	Cl	H
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	Cl	H
CF ₃	O-amino acid	F	O	6-Methylthymine	Cl	O-amino acid
CF ₃	O-amino acid	F	O	6-Methyluracil	Cl	O-amino acid
CF ₃	O-amino acid	F	O	8-Methylguanine	Cl	O-amino acid
CF ₃	O-amino acid	F	O	6-Methylcytosine	Cl	O-amino acid
CF ₃	O-amino acid	F	O	8-Methyladenine	Cl	O-amino acid
CF ₃	O-amino acid	F	O	8-Methylhypoxanthine	Cl	O-amino acid
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CF ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	O-amino acid	F	O	2-Amino-8-methyladenine	Cl	O-amino acid
CF ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CF ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CF ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CF ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CF ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	Cl	O-amino acid

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	O-amino acid	F	O	6-Methylthymine	Cl	O-acyl
CF ₃	O-amino acid	F	O	6-Methyluracil	Cl	O-acyl
CF ₃	O-amino acid	F	O	8-Methylguanine	Cl	O-acyl
CF ₃	O-amino acid	F	O	6-Methylcytosine	Cl	O-acyl
CF ₃	O-amino acid	F	O	8-Methyladenine	Cl	O-acyl
CF ₃	O-amino acid	F	O	8-Methylhypoxanthine	Cl	O-acyl
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	Cl	O-acyl
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CF ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-amino acid	F	O	2-Amino-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	Cl	O-acyl
CF ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CF ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CF ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-amino acid	F	O	6-Methylthymine	Cl	OH
CF ₃	O-amino acid	F	O	6-Methyluracil	Cl	OH
CF ₃	O-amino acid	F	O	8-Methylguanine	Cl	OH
CF ₃	O-amino acid	F	O	6-Methylcytosine	Cl	OH
CF ₃	O-amino acid	F	O	8-Methyladenine	Cl	OH
CF ₃	O-amino acid	F	O	8-Methylhypoxanthine	Cl	OH
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	Cl	OH
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	Cl	OH
CF ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	Cl	OH
CF ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	Cl	OH
CF ₃	O-amino acid	F	O	2-Amino-8-methyladenine	Cl	OH
CF ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	Cl	OH
CF ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	Cl	OH
CF ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	Cl	OH
CF ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	Cl	OH
CF ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	OH
CF ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	OH
CF ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	Cl	OH
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	Cl	OH
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	Cl	OH
CF ₃	O-amino acid	F	O	6-Methylthymine	H	H
CF ₃	O-amino acid	F	O	6-Methyluracil	H	H
CF ₃	O-amino acid	F	O	8-Methylguanine	H	H
CF ₃	O-amino acid	F	O	6-Methylcytosine	H	H
CF ₃	O-amino acid	F	O	8-Methyladenine	H	H
CF ₃	O-amino acid	F	O	8-Methylhypoxanthine	H	H
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	H	H
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	H	H
CF ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	H	H
CF ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	H	H
CF ₃	O-amino acid	F	O	2-Amino-8-methyladenine	H	H
CF ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	H	H
CF ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	H	H
CF ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	H	H
CF ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	H	H
CF ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	H
CF ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	H	H
CF ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	H	H
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	H	H
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	H	H
CF ₃	O-amino acid	F	O	6-Methylthymine	H	O-amino acid
CF ₃	O-amino acid	F	O	6-Methyluracil	H	O-amino acid
CF ₃	O-amino acid	F	O	8-Methylguanine	H	O-amino acid
CF ₃	O-amino acid	F	O	6-Methylcytosine	H	O-amino acid
CF ₃	O-amino acid	F	O	8-Methyladenine	H	O-amino acid
CF ₃	O-amino acid	F	O	8-Methylhypoxanthine	H	O-amino acid
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	H	O-amino acid
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	H	O-amino acid
CF ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	H	O-amino acid
CF ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	H	O-amino acid
CF ₃	O-amino acid	F	O	2-Amino-8-methyladenine	H	O-amino acid
CF ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	H	O-amino acid

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	H	O-amino acid
CF ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	H	O-amino acid
CF ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	H	O-amino acid
CF ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-amino acid
CF ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-amino acid
CF ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	H	O-amino acid
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	H	O-amino acid
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	H	O-amino acid
CF ₃	O-amino acid	F	O	6-Methylthymine	H	O-acyl
CF ₃	O-amino acid	F	O	6-Methyluracil	H	O-acyl
CF ₃	O-amino acid	F	O	8-Methylguanine	H	O-acyl
CF ₃	O-amino acid	F	O	6-Methylcytosine	H	O-acyl
CF ₃	O-amino acid	F	O	8-Methyladenine	H	O-acyl
CF ₃	O-amino acid	F	O	8-Methylhypoxanthine	H	O-acyl
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	H	O-acyl
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	H	O-acyl
CF ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	H	O-acyl
CF ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	H	O-acyl
CF ₃	O-amino acid	F	O	2-Amino-8-methyladenine	H	O-acyl
CF ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	H	O-acyl
CF ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	H	O-acyl
CF ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	H	O-acyl
CF ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	H	O-acyl
CF ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-acyl
CF ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-acyl
CF ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	H	O-acyl
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	H	O-acyl
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	H	O-acyl
CF ₃	O-amino acid	F	O	6-Methylthymine	H	OH
CF ₃	O-amino acid	F	O	6-Methyluracil	H	OH
CF ₃	O-amino acid	F	O	8-Methylguanine	H	OH
CF ₃	O-amino acid	F	O	6-Methylcytosine	H	OH
CF ₃	O-amino acid	F	O	8-Methyladenine	H	OH
CF ₃	O-amino acid	F	O	8-Methylhypoxanthine	H	OH
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	H	OH
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	H	OH
CF ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	H	OH
CF ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	H	OH
CF ₃	O-amino acid	F	O	2-Amino-8-methyladenine	H	OH
CF ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	H	OH
CF ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	H	OH
CF ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	H	OH
CF ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	H	OH
CF ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	OH
CF ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	H	OH
CF ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	H	OH
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	H	OH
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	H	OH
CF ₃	O-amino acid	F	O	6-Methylthymine	OH	H
CF ₃	O-amino acid	F	O	6-Methyluracil	OH	H
CF ₃	O-amino acid	F	O	8-Methylguanine	OH	H
CF ₃	O-amino acid	F	O	6-Methylcytosine	OH	H
CF ₃	O-amino acid	F	O	8-Methyladenine	OH	H
CF ₃	O-amino acid	F	O	8-Methylhypoxanthine	OH	H
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	OH	H
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	OH	H
CF ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	OH	H
CF ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	OH	H
CF ₃	O-amino acid	F	O	2-Amino-8-methyladenine	OH	H
CF ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	OH	H
CF ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	OH	H
CF ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	OH	H
CF ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	OH	H
CF ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	OH	H
CF ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	OH	H
CF ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	OH	H
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	OH	H
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	OH	H
CF ₃	O-amino acid	Br	O	6-Methylthymine	F	H
CF ₃	O-amino acid	Br	O	6-Methyluracil	F	H
CF ₃	O-amino acid	Br	O	8-Methylguanine	F	H
CF ₃	O-amino acid	Br	O	6-Methylcytosine	F	H
CF ₃	O-amino acid	Br	O	8-Methyladenine	F	H

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-amino acid	Br	O	8-Methylhypoxanthine	F	H
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methyluracil	F	H
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methylcytosine	F	H
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methyladenine	F	H
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methylhypoxanthine	F	H
CF ₃	O-amino acid	Br	O	2-Amino-8-methyladenine	F	H
CF ₃	O-amino acid	Br	O	2-Amino-8-methylhypoxanthine	F	H
CF ₃	O-amino acid	Br	O	2-N-acetyl-8-methylguanine	F	H
CF ₃	O-amino acid	Br	O	4-N-acetyl-8-methylcytosine	F	H
CF ₃	O-amino acid	Br	O	6-N-acetyl-8-methyladenine	F	H
CF ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	H
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	F	H
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-amino-8-methyladenine	F	H
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methyladenine	F	H
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methylhypoxanthine	F	H
CF ₃	O-amino acid	Br	O	6-Methylthymine	F	O-amino acid
CF ₃	O-amino acid	Br	O	6-Methyluracil	F	O-amino acid
CF ₃	O-amino acid	Br	O	8-Methylguanine	F	O-amino acid
CF ₃	O-amino acid	Br	O	6-Methylcytosine	F	O-amino acid
CF ₃	O-amino acid	Br	O	8-Methyladenine	F	O-amino acid
CF ₃	O-amino acid	Br	O	8-Methylhypoxanthine	F	O-amino acid
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methyluracil	F	O-amino acid
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methylcytosine	F	O-amino acid
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-amino acid	Br	O	2-Amino-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	Br	O	2-Amino-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-amino acid	Br	O	2-N-acetyl-8-methylguanine	F	O-amino acid
CF ₃	O-amino acid	Br	O	4-N-acetyl-8-methylcytosine	F	O-amino acid
CF ₃	O-amino acid	Br	O	6-N-acetyl-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-amino acid	Br	O	6-Methylthymine	F	O-acyl
CF ₃	O-amino acid	Br	O	6-Methyluracil	F	O-acyl
CF ₃	O-amino acid	Br	O	8-Methylguanine	F	O-acyl
CF ₃	O-amino acid	Br	O	6-Methylcytosine	F	O-acyl
CF ₃	O-amino acid	Br	O	8-Methyladenine	F	O-acyl
CF ₃	O-amino acid	Br	O	8-Methylhypoxanthine	F	O-acyl
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methyluracil	F	O-acyl
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methylcytosine	F	O-acyl
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CF ₃	O-amino acid	Br	O	2-Amino-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	Br	O	2-Amino-8-methylhypoxanthine	F	O-acyl
CF ₃	O-amino acid	Br	O	2-N-acetyl-8-methylguanine	F	O-acyl
CF ₃	O-amino acid	Br	O	4-N-acetyl-8-methylcytosine	F	O-acyl
CF ₃	O-amino acid	Br	O	6-N-acetyl-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methylhypoxanthine	F	O-acyl
CF ₃	O-amino acid	Br	O	6-Methylthymine	F	OH
CF ₃	O-amino acid	Br	O	6-Methyluracil	F	OH
CF ₃	O-amino acid	Br	O	8-Methylguanine	F	OH
CF ₃	O-amino acid	Br	O	6-Methylcytosine	F	OH
CF ₃	O-amino acid	Br	O	8-Methyladenine	F	OH
CF ₃	O-amino acid	Br	O	8-Methylhypoxanthine	F	OH
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methyluracil	F	OH
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methylcytosine	F	OH
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methyladenine	F	OH
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methylhypoxanthine	F	OH
CF ₃	O-amino acid	Br	O	2-Amino-8-methyladenine	F	OH
CF ₃	O-amino acid	Br	O	2-Amino-8-methylhypoxanthine	F	OH
CF ₃	O-amino acid	Br	O	2-N-acetyl-8-methylguanine	F	OH
CF ₃	O-amino acid	Br	O	4-N-acetyl-8-methylcytosine	F	OH
CF ₃	O-amino acid	Br	O	6-N-acetyl-8-methyladenine	F	OH
CF ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	OH
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	F	OH
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-amino-8-methyladenine	F	OH
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methyladenine	F	OH

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methylhypoxanthine	F	OH
CF ₃	O-amino acid	Br	O	6-Methylthymine	Br	H
CF ₃	O-amino acid	Br	O	6-Methyluracil	Br	H
CF ₃	O-amino acid	Br	O	8-Methylguanine	Br	H
CF ₃	O-amino acid	Br	O	6-Methylcytosine	Br	H
CF ₃	O-amino acid	Br	O	8-Methyladenine	Br	H
CF ₃	O-amino acid	Br	O	8-Methylhypoxanthine	Br	H
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methyluracil	Br	H
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methylcytosine	Br	H
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methyladenine	Br	H
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methylhypoxanthine	Br	H
CF ₃	O-amino acid	Br	O	2-Amino-8-methyladenine	Br	H
CF ₃	O-amino acid	Br	O	2-Amino-8-methylhypoxanthine	Br	H
CF ₃	O-amino acid	Br	O	2-N-acetyl-8-methylguanine	Br	H
CF ₃	O-amino acid	Br	O	4-N-acetyl-8-methylcytosine	Br	H
CF ₃	O-amino acid	Br	O	6-N-acetyl-8-methyladenine	Br	H
CF ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	H
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	H
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-amino-8-methyladenine	Br	H
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methyladenine	Br	H
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methylhypoxanthine	Br	H
CF ₃	O-amino acid	Br	O	6-Methylthymine	Br	O-amino acid
CF ₃	O-amino acid	Br	O	6-Methyluracil	Br	O-amino acid
CF ₃	O-amino acid	Br	O	8-Methylguanine	Br	O-amino acid
CF ₃	O-amino acid	Br	O	6-Methylcytosine	Br	O-amino acid
CF ₃	O-amino acid	Br	O	8-Methyladenine	Br	O-amino acid
CF ₃	O-amino acid	Br	O	8-Methylhypoxanthine	Br	O-amino acid
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methyluracil	Br	O-amino acid
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-amino acid	Br	O	2-Amino-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	Br	O	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-amino acid	Br	O	2-N-acetyl-8-methylguanine	Br	O-amino acid
CF ₃	O-amino acid	Br	O	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CF ₃	O-amino acid	Br	O	6-N-acetyl-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-amino acid	Br	O	6-Methylthymine	Br	O-acyl
CF ₃	O-amino acid	Br	O	6-Methyluracil	Br	O-acyl
CF ₃	O-amino acid	Br	O	8-Methylguanine	Br	O-acyl
CF ₃	O-amino acid	Br	O	6-Methylcytosine	Br	O-acyl
CF ₃	O-amino acid	Br	O	8-Methyladenine	Br	O-acyl
CF ₃	O-amino acid	Br	O	8-Methylhypoxanthine	Br	O-acyl
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methyluracil	Br	O-acyl
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methylcytosine	Br	O-acyl
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-amino acid	Br	O	2-Amino-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	Br	O	2-Amino-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-amino acid	Br	O	2-N-acetyl-8-methylguanine	Br	O-acyl
CF ₃	O-amino acid	Br	O	4-N-acetyl-8-methylcytosine	Br	O-acyl
CF ₃	O-amino acid	Br	O	6-N-acetyl-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-amino acid	Br	O	6-Methylthymine	Br	OH
CF ₃	O-amino acid	Br	O	6-Methyluracil	Br	OH
CF ₃	O-amino acid	Br	O	8-Methylguanine	Br	OH
CF ₃	O-amino acid	Br	O	6-Methylcytosine	Br	OH
CF ₃	O-amino acid	Br	O	8-Methyladenine	Br	OH
CF ₃	O-amino acid	Br	O	8-Methylhypoxanthine	Br	OH
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methyluracil	Br	OH
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methylcytosine	Br	OH
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methyladenine	Br	OH
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methylhypoxanthine	Br	OH
CF ₃	O-amino acid	Br	O	2-Amino-8-methyladenine	Br	OH
CF ₃	O-amino acid	Br	O	2-Amino-8-methylhypoxanthine	Br	OH

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-amino acid	Br	O	2-N-acetyl-8-methylguanine	Br	OH
CF ₃	O-amino acid	Br	O	4-N-acetyl-8-methylcytosine	Br	OH
CF ₃	O-amino acid	Br	O	6-N-acetyl-8-methyladenine	Br	OH
CF ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	OH
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	OH
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-amino-8-methyladenine	Br	OH
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methyladenine	Br	OH
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methylhypoxanthine	Br	OH
CF ₃	O-amino acid	Br	O	6-Methylthymine	Cl	H
CF ₃	O-amino acid	Br	O	6-Methyluracil	Cl	H
CF ₃	O-amino acid	Br	O	8-Methylguanine	Cl	H
CF ₃	O-amino acid	Br	O	6-Methylcytosine	Cl	H
CF ₃	O-amino acid	Br	O	8-Methyladenine	Cl	H
CF ₃	O-amino acid	Br	O	8-Methylhypoxanthine	Cl	H
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methyluracil	Cl	H
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methylcytosine	Cl	H
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methyladenine	Cl	H
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methylhypoxanthine	Cl	H
CF ₃	O-amino acid	Br	O	2-Amino-8-methyladenine	Cl	H
CF ₃	O-amino acid	Br	O	2-Amino-8-methylhypoxanthine	Cl	H
CF ₃	O-amino acid	Br	O	2-N-acetyl-8-methylguanine	Cl	H
CF ₃	O-amino acid	Br	O	4-N-acetyl-8-methylcytosine	Cl	H
CF ₃	O-amino acid	Br	O	6-N-acetyl-8-methyladenine	Cl	H
CF ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	H
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	H
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-amino-8-methyladenine	Cl	H
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methyladenine	Cl	H
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methylhypoxanthine	Cl	H
CF ₃	O-amino acid	Br	O	6-Methylthymine	Cl	O-amino acid
CF ₃	O-amino acid	Br	O	6-Methyluracil	Cl	O-amino acid
CF ₃	O-amino acid	Br	O	8-Methylguanine	Cl	O-amino acid
CF ₃	O-amino acid	Br	O	6-Methylcytosine	Cl	O-amino acid
CF ₃	O-amino acid	Br	O	8-Methyladenine	Cl	O-amino acid
CF ₃	O-amino acid	Br	O	8-Methylhypoxanthine	Cl	O-amino acid
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	O-amino acid	Br	O	2-Amino-8-methyladenine	Cl	O-amino acid
CF ₃	O-amino acid	Br	O	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	O-amino acid	Br	O	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CF ₃	O-amino acid	Br	O	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CF ₃	O-amino acid	Br	O	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CF ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	O-amino acid	Br	O	6-Methylthymine	Cl	O-acyl
CF ₃	O-amino acid	Br	O	6-Methyluracil	Cl	O-acyl
CF ₃	O-amino acid	Br	O	8-Methylguanine	Cl	O-acyl
CF ₃	O-amino acid	Br	O	6-Methylcytosine	Cl	O-acyl
CF ₃	O-amino acid	Br	O	8-Methyladenine	Cl	O-acyl
CF ₃	O-amino acid	Br	O	8-Methylhypoxanthine	Cl	O-acyl
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methyluracil	Cl	O-acyl
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-amino acid	Br	O	2-Amino-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	Br	O	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-amino acid	Br	O	2-N-acetyl-8-methylguanine	Cl	O-acyl
CF ₃	O-amino acid	Br	O	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CF ₃	O-amino acid	Br	O	6-N-acetyl-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-amino acid	Br	O	6-Methylthymine	Cl	OH
CF ₃	O-amino acid	Br	O	6-Methyluracil	Cl	OH
CF ₃	O-amino acid	Br	O	8-Methylguanine	Cl	OH
CF ₃	O-amino acid	Br	O	6-Methylcytosine	Cl	OH
CF ₃	O-amino acid	Br	O	8-Methyladenine	Cl	OH

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-amino acid	Br	O	8-Methylhypoxanthine	Cl	OH
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methyluracil	Cl	OH
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methylcytosine	Cl	OH
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methyladenine	Cl	OH
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methylhypoxanthine	Cl	OH
CF ₃	O-amino acid	Br	O	2-Amino-8-methyladenine	Cl	OH
CF ₃	O-amino acid	Br	O	2-Amino-8-methylhypoxanthine	Cl	OH
CF ₃	O-amino acid	Br	O	2-N-acetyl-8-methylguanine	Cl	OH
CF ₃	O-amino acid	Br	O	4-N-acetyl-8-methylcytosine	Cl	OH
CF ₃	O-amino acid	Br	O	6-N-acetyl-8-methyladenine	Cl	OH
CF ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	OH
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	OH
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-amino-8-methyladenine	Cl	OH
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methyladenine	Cl	OH
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methylhypoxanthine	Cl	OH
CF ₃	O-amino acid	Br	O	6-Methylthymine	H	H
CF ₃	O-amino acid	Br	O	6-Methyluracil	H	H
CF ₃	O-amino acid	Br	O	8-Methylguanine	H	H
CF ₃	O-amino acid	Br	O	6-Methylcytosine	H	H
CF ₃	O-amino acid	Br	O	8-Methyladenine	H	H
CF ₃	O-amino acid	Br	O	8-Methylhypoxanthine	H	H
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methyluracil	H	H
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methylcytosine	H	H
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methyladenine	H	H
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methylhypoxanthine	H	H
CF ₃	O-amino acid	Br	O	2-Amino-8-methyladenine	H	H
CF ₃	O-amino acid	Br	O	2-Amino-8-methylhypoxanthine	H	H
CF ₃	O-amino acid	Br	O	2-N-acetyl-8-methylguanine	H	H
CF ₃	O-amino acid	Br	O	4-N-acetyl-8-methylcytosine	H	H
CF ₃	O-amino acid	Br	O	6-N-acetyl-8-methyladenine	H	H
CF ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	H
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	H	H
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-amino-8-methyladenine	H	H
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methyladenine	H	H
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methylhypoxanthine	H	H
CF ₃	O-amino acid	Br	O	6-Methylthymine	H	O-amino acid
CF ₃	O-amino acid	Br	O	6-Methyluracil	H	O-amino acid
CF ₃	O-amino acid	Br	O	8-Methylguanine	H	O-amino acid
CF ₃	O-amino acid	Br	O	6-Methylcytosine	H	O-amino acid
CF ₃	O-amino acid	Br	O	8-Methyladenine	H	O-amino acid
CF ₃	O-amino acid	Br	O	8-Methylhypoxanthine	H	O-amino acid
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methyluracil	H	O-amino acid
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methylcytosine	H	O-amino acid
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methyladenine	H	O-amino acid
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methylhypoxanthine	H	O-amino acid
CF ₃	O-amino acid	Br	O	2-Amino-8-methyladenine	H	O-amino acid
CF ₃	O-amino acid	Br	O	2-Amino-8-methylhypoxanthine	H	O-amino acid
CF ₃	O-amino acid	Br	O	2-N-acetyl-8-methylguanine	H	O-amino acid
CF ₃	O-amino acid	Br	O	4-N-acetyl-8-methylcytosine	H	O-amino acid
CF ₃	O-amino acid	Br	O	6-N-acetyl-8-methyladenine	H	O-amino acid
CF ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-amino acid
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-amino acid
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-amino-8-methyladenine	H	O-amino acid
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methyladenine	H	O-amino acid
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methylhypoxanthine	H	O-amino acid
CF ₃	O-amino acid	Br	O	6-Methylthymine	H	O-acyl
CF ₃	O-amino acid	Br	O	6-Methyluracil	H	O-acyl
CF ₃	O-amino acid	Br	O	8-Methylguanine	H	O-acyl
CF ₃	O-amino acid	Br	O	6-Methylcytosine	H	O-acyl
CF ₃	O-amino acid	Br	O	8-Methyladenine	H	O-acyl
CF ₃	O-amino acid	Br	O	8-Methylhypoxanthine	H	O-acyl
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methyluracil	H	O-acyl
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methylcytosine	H	O-acyl
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methyladenine	H	O-acyl
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methylhypoxanthine	H	O-acyl
CF ₃	O-amino acid	Br	O	2-Amino-8-methyladenine	H	O-acyl
CF ₃	O-amino acid	Br	O	2-Amino-8-methylhypoxanthine	H	O-acyl
CF ₃	O-amino acid	Br	O	2-N-acetyl-8-methylguanine	H	O-acyl
CF ₃	O-amino acid	Br	O	4-N-acetyl-8-methylcytosine	H	O-acyl
CF ₃	O-amino acid	Br	O	6-N-acetyl-8-methyladenine	H	O-acyl
CF ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-acyl
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-acyl
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-amino-8-methyladenine	H	O-acyl
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methyladenine	H	O-acyl
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methylhypoxanthine	H	O-acyl

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methylhypoxanthine	H	O-acyl
CF ₃	O-amino acid	Br	O	6-Methylthymine	H	OH
CF ₃	O-amino acid	Br	O	6-Methyluracil	H	OH
CF ₃	O-amino acid	Br	O	8-Methylguanine	H	OH
CF ₃	O-amino acid	Br	O	6-Methylcytosine	H	OH
CF ₃	O-amino acid	Br	O	8-Methyladenine	H	OH
CF ₃	O-amino acid	Br	O	8-Methylhypoxanthine	H	OH
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methyluracil	H	OH
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methylcytosine	H	OH
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methyladenine	H	OH
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methylhypoxanthine	H	OH
CF ₃	O-amino acid	Br	O	2-Amino-8-methyladenine	H	OH
CF ₃	O-amino acid	Br	O	2-Amino-8-methylhypoxanthine	H	OH
CF ₃	O-amino acid	Br	O	2-N-acetyl-8-methylguanine	H	OH
CF ₃	O-amino acid	Br	O	4-N-acetyl-8-methylcytosine	H	OH
CF ₃	O-amino acid	Br	O	6-N-acetyl-8-methyladenine	H	OH
CF ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	OH
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	H	OH
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-amino-8-methyladenine	H	OH
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methyladenine	H	OH
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methylhypoxanthine	H	OH
CF ₃	O-amino acid	Br	O	6-Methylthymine	OH	H
CF ₃	O-amino acid	Br	O	6-Methyluracil	OH	H
CF ₃	O-amino acid	Br	O	8-Methylguanine	OH	H
CF ₃	O-amino acid	Br	O	6-Methylcytosine	OH	H
CF ₃	O-amino acid	Br	O	8-Methyladenine	OH	H
CF ₃	O-amino acid	Br	O	8-Methylhypoxanthine	OH	H
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methyluracil	OH	H
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methylcytosine	OH	H
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methyladenine	OH	H
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methylhypoxanthine	OH	H
CF ₃	O-amino acid	Br	O	2-Amino-8-methyladenine	OH	H
CF ₃	O-amino acid	Br	O	2-Amino-8-methylhypoxanthine	OH	H
CF ₃	O-amino acid	Br	O	2-N-acetyl-8-methylguanine	OH	H
CF ₃	O-amino acid	Br	O	4-N-acetyl-8-methylcytosine	OH	H
CF ₃	O-amino acid	Br	O	6-N-acetyl-8-methyladenine	OH	H
CF ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	OH	H
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	OH	H
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-amino-8-methyladenine	OH	H
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methyladenine	OH	H
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methylhypoxanthine	OH	H
CF ₃	O-amino acid	Cl	O	6-Methylthymine	F	H
CF ₃	O-amino acid	Cl	O	6-Methyluracil	F	H
CF ₃	O-amino acid	Cl	O	8-Methylguanine	F	H
CF ₃	O-amino acid	Cl	O	6-Methylcytosine	F	H
CF ₃	O-amino acid	Cl	O	8-Methyladenine	F	H
CF ₃	O-amino acid	Cl	O	8-Methylhypoxanthine	F	H
CF ₃	O-amino acid	Cl	O	5-Fluoro-6-Methyluracil	F	H
CF ₃	O-amino acid	Cl	O	5-Fluoro-6-Methylcytosine	F	H
CF ₃	O-amino acid	Cl	O	2-Fluoro-8-methyladenine	F	H
CF ₃	O-amino acid	Cl	O	2-Fluoro-8-methylhypoxanthine	F	H
CF ₃	O-amino acid	Cl	O	2-Amino-8-methyladenine	F	H
CF ₃	O-amino acid	Cl	O	2-Amino-8-methylhypoxanthine	F	H
CF ₃	O-amino acid	Cl	O	2-N-acetyl-8-methylguanine	F	H
CF ₃	O-amino acid	Cl	O	4-N-acetyl-8-methylcytosine	F	H
CF ₃	O-amino acid	Cl	O	6-N-acetyl-8-methyladenine	F	H
CF ₃	O-amino acid	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	H
CF ₃	O-amino acid	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	F	H
CF ₃	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-methyladenine	F	H
CF ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methyladenine	F	H
CF ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methylhypoxanthine	F	H
CF ₃	O-amino acid	Cl	O	6-Methylthymine	F	O-amino acid
CF ₃	O-amino acid	Cl	O	6-Methyluracil	F	O-amino acid
CF ₃	O-amino acid	Cl	O	8-Methylguanine	F	O-amino acid
CF ₃	O-amino acid	Cl	O	6-Methylcytosine	F	O-amino acid
CF ₃	O-amino acid	Cl	O	8-Methyladenine	F	O-amino acid
CF ₃	O-amino acid	Cl	O	8-Methylhypoxanthine	F	O-amino acid
CF ₃	O-amino acid	Cl	O	5-Fluoro-6-Methyluracil	F	O-amino acid
CF ₃	O-amino acid	Cl	O	5-Fluoro-6-Methylcytosine	F	O-amino acid
CF ₃	O-amino acid	Cl	O	2-Fluoro-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	Cl	O	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-amino acid	Cl	O	2-Amino-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	Cl	O	2-Amino-8-methylhypoxanthine	F	O-amino acid

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-amino acid	Cl	O	2-N-acetyl-8-methylguanine	F	O-amino acid
CF ₃	O-amino acid	Cl	O	4-N-acetyl-8-methylcytosine	F	O-amino acid
CF ₃	O-amino acid	Cl	O	6-N-acetyl-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CF ₃	O-amino acid	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-amino acid	Cl	O	6-Methylthymine	F	O-acyl
CF ₃	O-amino acid	Cl	O	6-Methyluracil	F	O-acyl
CF ₃	O-amino acid	Cl	O	8-Methylguanine	F	O-acyl
CF ₃	O-amino acid	Cl	O	6-Methylcytosine	F	O-acyl
CF ₃	O-amino acid	Cl	O	8-Methyladenine	F	O-acyl
CF ₃	O-amino acid	Cl	O	8-Methylhypoxanthine	F	O-acyl
CF ₃	O-amino acid	Cl	O	5-Fluoro-6-Methyluracil	F	O-acyl
CF ₃	O-amino acid	Cl	O	5-Fluoro-6-Methylcytosine	F	O-acyl
CF ₃	O-amino acid	Cl	O	2-Fluoro-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	Cl	O	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CF ₃	O-amino acid	Cl	O	2-Amino-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	Cl	O	2-Amino-8-methylhypoxanthine	F	O-acyl
CF ₃	O-amino acid	Cl	O	2-N-acetyl-8-methylguanine	F	O-acyl
CF ₃	O-amino acid	Cl	O	4-N-acetyl-8-methylcytosine	F	O-acyl
CF ₃	O-amino acid	Cl	O	6-N-acetyl-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CF ₃	O-amino acid	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methylhypoxanthine	F	O-acyl
CF ₃	O-amino acid	Cl	O	6-Methylthymine	F	OH
CF ₃	O-amino acid	Cl	O	6-Methyluracil	F	OH
CF ₃	O-amino acid	Cl	O	8-Methylguanine	F	OH
CF ₃	O-amino acid	Cl	O	6-Methylcytosine	F	OH
CF ₃	O-amino acid	Cl	O	8-Methyladenine	F	OH
CF ₃	O-amino acid	Cl	O	8-Methylhypoxanthine	F	OH
CF ₃	O-amino acid	Cl	O	5-Fluoro-6-Methyluracil	F	OH
CF ₃	O-amino acid	Cl	O	5-Fluoro-6-Methylcytosine	F	OH
CF ₃	O-amino acid	Cl	O	2-Fluoro-8-methyladenine	F	OH
CF ₃	O-amino acid	Cl	O	2-Fluoro-8-methylhypoxanthine	F	OH
CF ₃	O-amino acid	Cl	O	2-Amino-8-methyladenine	F	OH
CF ₃	O-amino acid	Cl	O	2-Amino-8-methylhypoxanthine	F	OH
CF ₃	O-amino acid	Cl	O	2-N-acetyl-8-methylguanine	F	OH
CF ₃	O-amino acid	Cl	O	4-N-acetyl-8-methylcytosine	F	OH
CF ₃	O-amino acid	Cl	O	6-N-acetyl-8-methyladenine	F	OH
CF ₃	O-amino acid	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	OH
CF ₃	O-amino acid	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	F	OH
CF ₃	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-methyladenine	F	OH
CF ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methyladenine	F	OH
CF ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methylhypoxanthine	F	OH
CF ₃	O-amino acid	Cl	O	6-Methylthymine	Br	H
CF ₃	O-amino acid	Cl	O	6-Methyluracil	Br	H
CF ₃	O-amino acid	Cl	O	8-Methylguanine	Br	H
CF ₃	O-amino acid	Cl	O	6-Methylcytosine	Br	H
CF ₃	O-amino acid	Cl	O	8-Methyladenine	Br	H
CF ₃	O-amino acid	Cl	O	8-Methylhypoxanthine	Br	H
CF ₃	O-amino acid	Cl	O	5-Fluoro-6-Methyluracil	Br	H
CF ₃	O-amino acid	Cl	O	5-Fluoro-6-Methylcytosine	Br	H
CF ₃	O-amino acid	Cl	O	2-Fluoro-8-methyladenine	Br	H
CF ₃	O-amino acid	Cl	O	2-Fluoro-8-methylhypoxanthine	Br	H
CF ₃	O-amino acid	Cl	O	2-Amino-8-methyladenine	Br	H
CF ₃	O-amino acid	Cl	O	2-Amino-8-methylhypoxanthine	Br	H
CF ₃	O-amino acid	Cl	O	2-N-acetyl-8-methylguanine	Br	H
CF ₃	O-amino acid	Cl	O	4-N-acetyl-8-methylcytosine	Br	H
CF ₃	O-amino acid	Cl	O	6-N-acetyl-8-methyladenine	Br	H
CF ₃	O-amino acid	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	H
CF ₃	O-amino acid	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	H
CF ₃	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Br	H
CF ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methyladenine	Br	H
CF ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Br	H
CF ₃	O-amino acid	Cl	O	6-Methylthymine	Br	O-amino acid
CF ₃	O-amino acid	Cl	O	6-Methyluracil	Br	O-amino acid
CF ₃	O-amino acid	Cl	O	8-Methylguanine	Br	O-amino acid
CF ₃	O-amino acid	Cl	O	6-Methylcytosine	Br	O-amino acid
CF ₃	O-amino acid	Cl	O	8-Methyladenine	Br	O-amino acid

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-amino acid	Cl	O	8-Methylhypoxanthine	Br	O-amino acid
CF ₃	O-amino acid	Cl	O	5-Fluoro-6-Methyluracil	Br	O-amino acid
CF ₃	O-amino acid	Cl	O	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CF ₃	O-amino acid	Cl	O	2-Fluoro-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	Cl	O	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-amino acid	Cl	O	2-Amino-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	Cl	O	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-amino acid	Cl	O	2-N-acetyl-8-methylguanine	Br	O-amino acid
CF ₃	O-amino acid	Cl	O	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CF ₃	O-amino acid	Cl	O	6-N-acetyl-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CF ₃	O-amino acid	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-amino acid	Cl	O	6-Methylthymine	Br	O-acyl
CF ₃	O-amino acid	Cl	O	6-Methyluracil	Br	O-acyl
CF ₃	O-amino acid	Cl	O	8-Methylguanine	Br	O-acyl
CF ₃	O-amino acid	Cl	O	6-Methylcytosine	Br	O-acyl
CF ₃	O-amino acid	Cl	O	8-Methyladenine	Br	O-acyl
CF ₃	O-amino acid	Cl	O	8-Methylhypoxanthine	Br	O-acyl
CF ₃	O-amino acid	Cl	O	5-Fluoro-6-Methyluracil	Br	O-acyl
CF ₃	O-amino acid	Cl	O	5-Fluoro-6-Methylcytosine	Br	O-acyl
CF ₃	O-amino acid	Cl	O	2-Fluoro-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	Cl	O	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-amino acid	Cl	O	2-Amino-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	Cl	O	2-Amino-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-amino acid	Cl	O	2-N-acetyl-8-methylguanine	Br	O-acyl
CF ₃	O-amino acid	Cl	O	4-N-acetyl-8-methylcytosine	Br	O-acyl
CF ₃	O-amino acid	Cl	O	6-N-acetyl-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CF ₃	O-amino acid	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-amino acid	Cl	O	6-Methylthymine	Br	OH
CF ₃	O-amino acid	Cl	O	6-Methyluracil	Br	OH
CF ₃	O-amino acid	Cl	O	8-Methylguanine	Br	OH
CF ₃	O-amino acid	Cl	O	6-Methylcytosine	Br	OH
CF ₃	O-amino acid	Cl	O	8-Methyladenine	Br	OH
CF ₃	O-amino acid	Cl	O	8-Methylhypoxanthine	Br	OH
CF ₃	O-amino acid	Cl	O	5-Fluoro-6-Methyluracil	Br	OH
CF ₃	O-amino acid	Cl	O	5-Fluoro-6-Methylcytosine	Br	OH
CF ₃	O-amino acid	Cl	O	2-Fluoro-8-methyladenine	Br	OH
CF ₃	O-amino acid	Cl	O	2-Fluoro-8-methylhypoxanthine	Br	OH
CF ₃	O-amino acid	Cl	O	2-Amino-8-methyladenine	Br	OH
CF ₃	O-amino acid	Cl	O	2-Amino-8-methylhypoxanthine	Br	OH
CF ₃	O-amino acid	Cl	O	2-N-acetyl-8-methylguanine	Br	OH
CF ₃	O-amino acid	Cl	O	4-N-acetyl-8-methylcytosine	Br	OH
CF ₃	O-amino acid	Cl	O	6-N-acetyl-8-methyladenine	Br	OH
CF ₃	O-amino acid	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	OH
CF ₃	O-amino acid	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	OH
CF ₃	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Br	OH
CF ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methyladenine	Br	OH
CF ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Br	OH
CF ₃	O-amino acid	Cl	O	6-Methylthymine	Cl	H
CF ₃	O-amino acid	Cl	O	6-Methyluracil	Cl	H
CF ₃	O-amino acid	Cl	O	8-Methylguanine	Cl	H
CF ₃	O-amino acid	Cl	O	6-Methylcytosine	Cl	H
CF ₃	O-amino acid	Cl	O	8-Methyladenine	Cl	H
CF ₃	O-amino acid	Cl	O	8-Methylhypoxanthine	Cl	H
CF ₃	O-amino acid	Cl	O	5-Fluoro-6-Methyluracil	Cl	H
CF ₃	O-amino acid	Cl	O	5-Fluoro-6-Methylcytosine	Cl	H
CF ₃	O-amino acid	Cl	O	2-Fluoro-8-methyladenine	Cl	H
CF ₃	O-amino acid	Cl	O	2-Fluoro-8-methylhypoxanthine	Cl	H
CF ₃	O-amino acid	Cl	O	2-Amino-8-methyladenine	Cl	H
CF ₃	O-amino acid	Cl	O	2-Amino-8-methylhypoxanthine	Cl	H
CF ₃	O-amino acid	Cl	O	2-N-acetyl-8-methylguanine	Cl	H
CF ₃	O-amino acid	Cl	O	4-N-acetyl-8-methylcytosine	Cl	H
CF ₃	O-amino acid	Cl	O	6-N-acetyl-8-methyladenine	Cl	H
CF ₃	O-amino acid	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	H
CF ₃	O-amino acid	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	H
CF ₃	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Cl	H
CF ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methyladenine	Cl	H

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Cl	H
CF ₃	O-amino acid	Cl	O	6-Methylthymine	Cl	O-amino acid
CF ₃	O-amino acid	Cl	O	6-Methyluracil	Cl	O-amino acid
CF ₃	O-amino acid	Cl	O	8-Methylguanine	Cl	O-amino acid
CF ₃	O-amino acid	Cl	O	6-Methylcytosine	Cl	O-amino acid
CF ₃	O-amino acid	Cl	O	8-Methyladenine	Cl	O-amino acid
CF ₃	O-amino acid	Cl	O	8-Methylhypoxanthine	Cl	O-amino acid
CF ₃	O-amino acid	Cl	O	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CF ₃	O-amino acid	Cl	O	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CF ₃	O-amino acid	Cl	O	2-Fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	O-amino acid	Cl	O	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	O-amino acid	Cl	O	2-Amino-8-methyladenine	Cl	O-amino acid
CF ₃	O-amino acid	Cl	O	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	O-amino acid	Cl	O	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CF ₃	O-amino acid	Cl	O	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CF ₃	O-amino acid	Cl	O	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CF ₃	O-amino acid	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CF ₃	O-amino acid	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CF ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CF ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	O-amino acid	Cl	O	6-Methylthymine	Cl	O-acyl
CF ₃	O-amino acid	Cl	O	6-Methyluracil	Cl	O-acyl
CF ₃	O-amino acid	Cl	O	8-Methylguanine	Cl	O-acyl
CF ₃	O-amino acid	Cl	O	6-Methylcytosine	Cl	O-acyl
CF ₃	O-amino acid	Cl	O	8-Methyladenine	Cl	O-acyl
CF ₃	O-amino acid	Cl	O	8-Methylhypoxanthine	Cl	O-acyl
CF ₃	O-amino acid	Cl	O	5-Fluoro-6-Methyluracil	Cl	O-acyl
CF ₃	O-amino acid	Cl	O	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CF ₃	O-amino acid	Cl	O	2-Fluoro-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	Cl	O	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-amino acid	Cl	O	2-Amino-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	Cl	O	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-amino acid	Cl	O	2-N-acetyl-8-methylguanine	Cl	O-acyl
CF ₃	O-amino acid	Cl	O	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CF ₃	O-amino acid	Cl	O	6-N-acetyl-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CF ₃	O-amino acid	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-amino acid	Cl	O	6-Methylthymine	Cl	OH
CF ₃	O-amino acid	Cl	O	6-Methyluracil	Cl	OH
CF ₃	O-amino acid	Cl	O	8-Methylguanine	Cl	OH
CF ₃	O-amino acid	Cl	O	6-Methylcytosine	Cl	OH
CF ₃	O-amino acid	Cl	O	8-Methyladenine	Cl	OH
CF ₃	O-amino acid	Cl	O	8-Methylhypoxanthine	Cl	OH
CF ₃	O-amino acid	Cl	O	5-Fluoro-6-Methyluracil	Cl	OH
CF ₃	O-amino acid	Cl	O	5-Fluoro-6-Methylcytosine	Cl	OH
CF ₃	O-amino acid	Cl	O	2-Fluoro-8-methyladenine	Cl	OH
CF ₃	O-amino acid	Cl	O	2-Fluoro-8-methylhypoxanthine	Cl	OH
CF ₃	O-amino acid	Cl	O	2-Amino-8-methyladenine	Cl	OH
CF ₃	O-amino acid	Cl	O	2-Amino-8-methylhypoxanthine	Cl	OH
CF ₃	O-amino acid	Cl	O	2-N-acetyl-8-methylguanine	Cl	OH
CF ₃	O-amino acid	Cl	O	4-N-acetyl-8-methylcytosine	Cl	OH
CF ₃	O-amino acid	Cl	O	6-N-acetyl-8-methyladenine	Cl	OH
CF ₃	O-amino acid	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	OH
CF ₃	O-amino acid	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	OH
CF ₃	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Cl	OH
CF ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methyladenine	Cl	OH
CF ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Cl	OH
CF ₃	O-amino acid	Cl	O	6-Methylthymine	H	H
CF ₃	O-amino acid	Cl	O	6-Methyluracil	H	H
CF ₃	O-amino acid	Cl	O	8-Methylguanine	H	H
CF ₃	O-amino acid	Cl	O	6-Methylcytosine	H	H
CF ₃	O-amino acid	Cl	O	8-Methyladenine	H	H
CF ₃	O-amino acid	Cl	O	8-Methylhypoxanthine	H	H
CF ₃	O-amino acid	Cl	O	5-Fluoro-6-Methyluracil	H	H
CF ₃	O-amino acid	Cl	O	5-Fluoro-6-Methylcytosine	H	H
CF ₃	O-amino acid	Cl	O	2-Fluoro-8-methyladenine	H	H
CF ₃	O-amino acid	Cl	O	2-Fluoro-8-methylhypoxanthine	H	H
CF ₃	O-amino acid	Cl	O	2-Amino-8-methyladenine	H	H
CF ₃	O-amino acid	Cl	O	2-Amino-8-methylhypoxanthine	H	H

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-amino acid	Cl	O	2-N-acetyl-8-methylguanine	H	H
CF ₃	O-amino acid	Cl	O	4-N-acetyl-8-methylcytosine	H	H
CF ₃	O-amino acid	Cl	O	6-N-acetyl-8-methyladenine	H	H
CF ₃	O-amino acid	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	H
CF ₃	O-amino acid	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	H	H
CF ₃	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-methyladenine	H	H
CF ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methyladenine	H	H
CF ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methylhypoxanthine	H	H
CF ₃	O-amino acid	Cl	O	6-Methylthymine	H	O-amino acid
CF ₃	O-amino acid	Cl	O	6-Methyluracil	H	O-amino acid
CF ₃	O-amino acid	Cl	O	8-Methylguanine	H	O-amino acid
CF ₃	O-amino acid	Cl	O	6-Methylcytosine	H	O-amino acid
CF ₃	O-amino acid	Cl	O	8-Methyladenine	H	O-amino acid
CF ₃	O-amino acid	Cl	O	8-Methylhypoxanthine	H	O-amino acid
CF ₃	O-amino acid	Cl	O	5-Fluoro-6-Methyluracil	H	O-amino acid
CF ₃	O-amino acid	Cl	O	5-Fluoro-6-Methylcytosine	H	O-amino acid
CF ₃	O-amino acid	Cl	O	2-Fluoro-8-methyladenine	H	O-amino acid
CF ₃	O-amino acid	Cl	O	2-Fluoro-8-methylhypoxanthine	H	O-amino acid
CF ₃	O-amino acid	Cl	O	2-Amino-8-methyladenine	H	O-amino acid
CF ₃	O-amino acid	Cl	O	2-Amino-8-methylhypoxanthine	H	O-amino acid
CF ₃	O-amino acid	Cl	O	2-N-acetyl-8-methylguanine	H	O-amino acid
CF ₃	O-amino acid	Cl	O	4-N-acetyl-8-methylcytosine	H	O-amino acid
CF ₃	O-amino acid	Cl	O	6-N-acetyl-8-methyladenine	H	O-amino acid
CF ₃	O-amino acid	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-amino acid
CF ₃	O-amino acid	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-amino acid
CF ₃	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-methyladenine	H	O-amino acid
CF ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methyladenine	H	O-amino acid
CF ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methylhypoxanthine	H	O-amino acid
CF ₃	O-amino acid	Cl	O	6-Methylthymine	H	O-acyl
CF ₃	O-amino acid	Cl	O	6-Methyluracil	H	O-acyl
CF ₃	O-amino acid	Cl	O	8-Methylguanine	H	O-acyl
CF ₃	O-amino acid	Cl	O	6-Methylcytosine	H	O-acyl
CF ₃	O-amino acid	Cl	O	8-Methyladenine	H	O-acyl
CF ₃	O-amino acid	Cl	O	8-Methylhypoxanthine	H	O-acyl
CF ₃	O-amino acid	Cl	O	5-Fluoro-6-Methyluracil	H	O-acyl
CF ₃	O-amino acid	Cl	O	5-Fluoro-6-Methylcytosine	H	O-acyl
CF ₃	O-amino acid	Cl	O	2-Fluoro-8-methyladenine	H	O-acyl
CF ₃	O-amino acid	Cl	O	2-Fluoro-8-methylhypoxanthine	H	O-acyl
CF ₃	O-amino acid	Cl	O	2-Amino-8-methyladenine	H	O-acyl
CF ₃	O-amino acid	Cl	O	2-Amino-8-methylhypoxanthine	H	O-acyl
CF ₃	O-amino acid	Cl	O	2-N-acetyl-8-methylguanine	H	O-acyl
CF ₃	O-amino acid	Cl	O	4-N-acetyl-8-methylcytosine	H	O-acyl
CF ₃	O-amino acid	Cl	O	6-N-acetyl-8-methyladenine	H	O-acyl
CF ₃	O-amino acid	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-acyl
CF ₃	O-amino acid	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-acyl
CF ₃	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-methyladenine	H	O-acyl
CF ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methyladenine	H	O-acyl
CF ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methylhypoxanthine	H	O-acyl
CF ₃	O-amino acid	Cl	O	6-Methylthymine	H	OH
CF ₃	O-amino acid	Cl	O	6-Methyluracil	H	OH
CF ₃	O-amino acid	Cl	O	8-Methylguanine	H	OH
CF ₃	O-amino acid	Cl	O	6-Methylcytosine	H	OH
CF ₃	O-amino acid	Cl	O	8-Methyladenine	H	OH
CF ₃	O-amino acid	Cl	O	8-Methylhypoxanthine	H	OH
CF ₃	O-amino acid	Cl	O	5-Fluoro-6-Methyluracil	H	OH
CF ₃	O-amino acid	Cl	O	5-Fluoro-6-Methylcytosine	H	OH
CF ₃	O-amino acid	Cl	O	2-Fluoro-8-methyladenine	H	OH
CF ₃	O-amino acid	Cl	O	2-Fluoro-8-methylhypoxanthine	H	OH
CF ₃	O-amino acid	Cl	O	2-Amino-8-methyladenine	H	OH
CF ₃	O-amino acid	Cl	O	2-Amino-8-methylhypoxanthine	H	OH
CF ₃	O-amino acid	Cl	O	2-N-acetyl-8-methylguanine	H	OH
CF ₃	O-amino acid	Cl	O	4-N-acetyl-8-methylcytosine	H	OH
CF ₃	O-amino acid	Cl	O	6-N-acetyl-8-methyladenine	H	OH
CF ₃	O-amino acid	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	OH
CF ₃	O-amino acid	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	H	OH
CF ₃	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-methyladenine	H	OH
CF ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methyladenine	H	OH
CF ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methylhypoxanthine	H	OH
CF ₃	O-amino acid	Cl	O	6-Methylthymine	OH	H
CF ₃	O-amino acid	Cl	O	6-Methyluracil	OH	H
CF ₃	O-amino acid	Cl	O	8-Methylguanine	OH	H
CF ₃	O-amino acid	Cl	O	6-Methylcytosine	OH	H
CF ₃	O-amino acid	Cl	O	8-Methyladenine	OH	H

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-amino acid	Cl	O	8-Methylhypoxanthine	OH	H
CF ₃	O-amino acid	Cl	O	5-Fluoro-6-Methyluracil	OH	H
CF ₃	O-amino acid	Cl	O	5-Fluoro-6-Methylcytosine	OH	H
CF ₃	O-amino acid	Cl	O	2-Fluoro-8-methyladenine	OH	H
CF ₃	O-amino acid	Cl	O	2-Fluoro-8-methylhypoxanthine	OH	H
CF ₃	O-amino acid	Cl	O	2-Amino-8-methyladenine	OH	H
CF ₃	O-amino acid	Cl	O	2-Amino-8-methylhypoxanthine	OH	H
CF ₃	O-amino acid	Cl	O	2-N-acetyl-8-methylguanine	OH	H
CF ₃	O-amino acid	Cl	O	4-N-acetyl-8-methylcytosine	OH	H
CF ₃	O-amino acid	Cl	O	6-N-acetyl-8-methyladenine	OH	H
CF ₃	O-amino acid	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	OH	H
CF ₃	O-amino acid	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	OH	H
CF ₃	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-methyladenine	OH	H
CF ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methyladenine	OH	H
CF ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methylhypoxanthine	OH	H
CF ₃	O-amino acid	H	O	6-Methylthymine	F	H
CF ₃	O-amino acid	H	O	6-Methyluracil	F	H
CF ₃	O-amino acid	H	O	8-Methylguanine	F	H
CF ₃	O-amino acid	H	O	6-Methylcytosine	F	H
CF ₃	O-amino acid	H	O	8-Methyladenine	F	H
CF ₃	O-amino acid	H	O	8-Methylhypoxanthine	F	H
CF ₃	O-amino acid	H	O	5-Fluoro-6-Methyluracil	F	H
CF ₃	O-amino acid	H	O	5-Fluoro-6-Methylcytosine	F	H
CF ₃	O-amino acid	H	O	2-Fluoro-8-methyladenine	F	H
CF ₃	O-amino acid	H	O	2-Fluoro-8-methylhypoxanthine	F	H
CF ₃	O-amino acid	H	O	2-Amino-8-methyladenine	F	H
CF ₃	O-amino acid	H	O	2-Amino-8-methylhypoxanthine	F	H
CF ₃	O-amino acid	H	O	2-N-acetyl-8-methylguanine	F	H
CF ₃	O-amino acid	H	O	4-N-acetyl-8-methylcytosine	F	H
CF ₃	O-amino acid	H	O	6-N-acetyl-8-methyladenine	F	H
CF ₃	O-amino acid	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	H
CF ₃	O-amino acid	H	O	6-N-acetyl-2-fluoro-8-methyladenine	F	H
CF ₃	O-amino acid	H	O	6-N-acetyl-2-amino-8-methyladenine	F	H
CF ₃	O-amino acid	H	O	2-N-acetylamino-8-methyladenine	F	H
CF ₃	O-amino acid	H	O	2-N-acetylamino-8-methylhypoxanthine	F	H
CF ₃	O-amino acid	H	O	6-Methylthymine	F	O-amino acid
CF ₃	O-amino acid	H	O	6-Methyluracil	F	O-amino acid
CF ₃	O-amino acid	H	O	8-Methylguanine	F	O-amino acid
CF ₃	O-amino acid	H	O	6-Methylcytosine	F	O-amino acid
CF ₃	O-amino acid	H	O	8-Methyladenine	F	O-amino acid
CF ₃	O-amino acid	H	O	8-Methylhypoxanthine	F	O-amino acid
CF ₃	O-amino acid	H	O	5-Fluoro-6-Methyluracil	F	O-amino acid
CF ₃	O-amino acid	H	O	5-Fluoro-6-Methylcytosine	F	O-amino acid
CF ₃	O-amino acid	H	O	2-Fluoro-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	H	O	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-amino acid	H	O	2-Amino-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	H	O	2-Amino-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-amino acid	H	O	2-N-acetyl-8-methylguanine	F	O-amino acid
CF ₃	O-amino acid	H	O	4-N-acetyl-8-methylcytosine	F	O-amino acid
CF ₃	O-amino acid	H	O	6-N-acetyl-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CF ₃	O-amino acid	H	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	H	O	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	H	O	2-N-acetylamino-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	H	O	2-N-acetylamino-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-amino acid	H	O	6-Methylthymine	F	O-acyl
CF ₃	O-amino acid	H	O	6-Methyluracil	F	O-acyl
CF ₃	O-amino acid	H	O	8-Methylguanine	F	O-acyl
CF ₃	O-amino acid	H	O	6-Methylcytosine	F	O-acyl
CF ₃	O-amino acid	H	O	8-Methyladenine	F	O-acyl
CF ₃	O-amino acid	H	O	8-Methylhypoxanthine	F	O-acyl
CF ₃	O-amino acid	H	O	5-Fluoro-6-Methyluracil	F	O-acyl
CF ₃	O-amino acid	H	O	5-Fluoro-6-Methylcytosine	F	O-acyl
CF ₃	O-amino acid	H	O	2-Fluoro-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	H	O	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CF ₃	O-amino acid	H	O	2-Amino-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	H	O	2-Amino-8-methylhypoxanthine	F	O-acyl
CF ₃	O-amino acid	H	O	2-N-acetyl-8-methylguanine	F	O-acyl
CF ₃	O-amino acid	H	O	4-N-acetyl-8-methylcytosine	F	O-acyl
CF ₃	O-amino acid	H	O	6-N-acetyl-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CF ₃	O-amino acid	H	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	H	O	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	H	O	2-N-acetylamino-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	H	O	2-N-acetylamino-8-methylhypoxanthine	F	O-acyl

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-amino acid	H	O	2-N-acetylamino-8-methylhypoxanthine	F	O-acyl
CF ₃	O-amino acid	H	O	6-Methylthymine	F	OH
CF ₃	O-amino acid	H	O	6-Methyluracil	F	OH
CF ₃	O-amino acid	H	O	8-Methylguanine	F	OH
CF ₃	O-amino acid	H	O	6-Methylcytosine	F	OH
CF ₃	O-amino acid	H	O	8-Methyladenine	F	OH
CF ₃	O-amino acid	H	O	8-Methylhypoxanthine	F	OH
CF ₃	O-amino acid	H	O	5-Fluoro-6-Methyluracil	F	OH
CF ₃	O-amino acid	H	O	5-Fluoro-6-Methylcytosine	F	OH
CF ₃	O-amino acid	H	O	2-Fluoro-8-methyladenine	F	OH
CF ₃	O-amino acid	H	O	2-Fluoro-8-methylhypoxanthine	F	OH
CF ₃	O-amino acid	H	O	2-Amino-8-methyladenine	F	OH
CF ₃	O-amino acid	H	O	2-Amino-8-methylhypoxanthine	F	OH
CF ₃	O-amino acid	H	O	2-N-acetyl-8-methylguanine	F	OH
CF ₃	O-amino acid	H	O	4-N-acetyl-8-methylcytosine	F	OH
CF ₃	O-amino acid	H	O	6-N-acetyl-8-methyladenine	F	OH
CF ₃	O-amino acid	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	OH
CF ₃	O-amino acid	H	O	6-N-acetyl-2-fluoro-8-methyladenine	F	OH
CF ₃	O-amino acid	H	O	6-N-acetyl-2-amino-8-methyladenine	F	OH
CF ₃	O-amino acid	H	O	2-N-acetylamino-8-methyladenine	F	OH
CF ₃	O-amino acid	H	O	2-N-acetylamino-8-methylhypoxanthine	F	OH
CF ₃	O-amino acid	H	O	6-Methylthymine	Br	H
CF ₃	O-amino acid	H	O	6-Methyluracil	Br	H
CF ₃	O-amino acid	H	O	8-Methylguanine	Br	H
CF ₃	O-amino acid	H	O	6-Methylcytosine	Br	H
CF ₃	O-amino acid	H	O	8-Methyladenine	Br	H
CF ₃	O-amino acid	H	O	8-Methylhypoxanthine	Br	H
CF ₃	O-amino acid	H	O	5-Fluoro-6-Methyluracil	Br	H
CF ₃	O-amino acid	H	O	5-Fluoro-6-Methylcytosine	Br	H
CF ₃	O-amino acid	H	O	2-Fluoro-8-methyladenine	Br	H
CF ₃	O-amino acid	H	O	2-Fluoro-8-methylhypoxanthine	Br	H
CF ₃	O-amino acid	H	O	2-Amino-8-methyladenine	Br	H
CF ₃	O-amino acid	H	O	2-Amino-8-methylhypoxanthine	Br	H
CF ₃	O-amino acid	H	O	2-N-acetyl-8-methylguanine	Br	H
CF ₃	O-amino acid	H	O	4-N-acetyl-8-methylcytosine	Br	H
CF ₃	O-amino acid	H	O	6-N-acetyl-8-methyladenine	Br	H
CF ₃	O-amino acid	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	H
CF ₃	O-amino acid	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	H
CF ₃	O-amino acid	H	O	6-N-acetyl-2-amino-8-methyladenine	Br	H
CF ₃	O-amino acid	H	O	2-N-acetylamino-8-methyladenine	Br	H
CF ₃	O-amino acid	H	O	2-N-acetylamino-8-methylhypoxanthine	Br	H
CF ₃	O-amino acid	H	O	6-Methylthymine	Br	O-amino acid
CF ₃	O-amino acid	H	O	6-Methyluracil	Br	O-amino acid
CF ₃	O-amino acid	H	O	8-Methylguanine	Br	O-amino acid
CF ₃	O-amino acid	H	O	6-Methylcytosine	Br	O-amino acid
CF ₃	O-amino acid	H	O	8-Methyladenine	Br	O-amino acid
CF ₃	O-amino acid	H	O	8-Methylhypoxanthine	Br	O-amino acid
CF ₃	O-amino acid	H	O	5-Fluoro-6-Methyluracil	Br	O-amino acid
CF ₃	O-amino acid	H	O	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CF ₃	O-amino acid	H	O	2-Fluoro-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	H	O	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-amino acid	H	O	2-Amino-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	H	O	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-amino acid	H	O	2-N-acetyl-8-methylguanine	Br	O-amino acid
CF ₃	O-amino acid	H	O	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CF ₃	O-amino acid	H	O	6-N-acetyl-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CF ₃	O-amino acid	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	H	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	H	O	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	H	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-amino acid	H	O	6-Methylthymine	Br	O-acyl
CF ₃	O-amino acid	H	O	6-Methyluracil	Br	O-acyl
CF ₃	O-amino acid	H	O	8-Methylguanine	Br	O-acyl
CF ₃	O-amino acid	H	O	6-Methylcytosine	Br	O-acyl
CF ₃	O-amino acid	H	O	8-Methyladenine	Br	O-acyl
CF ₃	O-amino acid	H	O	8-Methylhypoxanthine	Br	O-acyl
CF ₃	O-amino acid	H	O	5-Fluoro-6-Methyluracil	Br	O-acyl
CF ₃	O-amino acid	H	O	5-Fluoro-6-Methylcytosine	Br	O-acyl
CF ₃	O-amino acid	H	O	2-Fluoro-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	H	O	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-amino acid	H	O	2-Amino-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	H	O	2-Amino-8-methylhypoxanthine	Br	O-acyl

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-amino acid	H	O	2-N-acetyl-8-methylguanine	Br	O-acyl
CF ₃	O-amino acid	H	O	4-N-acetyl-8-methylcytosine	Br	O-acyl
CF ₃	O-amino acid	H	O	6-N-acetyl-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CF ₃	O-amino acid	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	H	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	H	O	2-N-acetylamino-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	H	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-amino acid	H	O	6-Methylthymine	Br	OH
CF ₃	O-amino acid	H	O	6-Methyluracil	Br	OH
CF ₃	O-amino acid	H	O	8-Methylguanine	Br	OH
CF ₃	O-amino acid	H	O	6-Methylcytosine	Br	OH
CF ₃	O-amino acid	H	O	8-Methyladenine	Br	OH
CF ₃	O-amino acid	H	O	8-Methylhypoxanthine	Br	OH
CF ₃	O-amino acid	H	O	5-Fluoro-6-Methyluracil	Br	OH
CF ₃	O-amino acid	H	O	5-Fluoro-6-Methylcytosine	Br	OH
CF ₃	O-amino acid	H	O	2-Fluoro-8-methyladenine	Br	OH
CF ₃	O-amino acid	H	O	2-Fluoro-8-methylhypoxanthine	Br	OH
CF ₃	O-amino acid	H	O	2-Amino-8-methyladenine	Br	OH
CF ₃	O-amino acid	H	O	2-Amino-8-methylhypoxanthine	Br	OH
CF ₃	O-amino acid	H	O	2-N-acetyl-8-methylguanine	Br	OH
CF ₃	O-amino acid	H	O	4-N-acetyl-8-methylcytosine	Br	OH
CF ₃	O-amino acid	H	O	6-N-acetyl-8-methyladenine	Br	OH
CF ₃	O-amino acid	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	OH
CF ₃	O-amino acid	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	OH
CF ₃	O-amino acid	H	O	6-N-acetyl-2-amino-8-methyladenine	Br	OH
CF ₃	O-amino acid	H	O	2-N-acetylamino-8-methyladenine	Br	OH
CF ₃	O-amino acid	H	O	2-N-acetylamino-8-methylhypoxanthine	Br	OH
CF ₃	O-amino acid	H	O	6-Methylthymine	Cl	H
CF ₃	O-amino acid	H	O	6-Methyluracil	Cl	H
CF ₃	O-amino acid	H	O	8-Methylguanine	Cl	H
CF ₃	O-amino acid	H	O	6-Methylcytosine	Cl	H
CF ₃	O-amino acid	H	O	8-Methyladenine	Cl	H
CF ₃	O-amino acid	H	O	8-Methylhypoxanthine	Cl	H
CF ₃	O-amino acid	H	O	5-Fluoro-6-Methyluracil	Cl	H
CF ₃	O-amino acid	H	O	5-Fluoro-6-Methylcytosine	Cl	H
CF ₃	O-amino acid	H	O	2-Fluoro-8-methyladenine	Cl	H
CF ₃	O-amino acid	H	O	2-Fluoro-8-methylhypoxanthine	Cl	H
CF ₃	O-amino acid	H	O	2-Amino-8-methyladenine	Cl	H
CF ₃	O-amino acid	H	O	2-Amino-8-methylhypoxanthine	Cl	H
CF ₃	O-amino acid	H	O	2-N-acetyl-8-methylguanine	Cl	H
CF ₃	O-amino acid	H	O	4-N-acetyl-8-methylcytosine	Cl	H
CF ₃	O-amino acid	H	O	6-N-acetyl-8-methyladenine	Cl	H
CF ₃	O-amino acid	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	H
CF ₃	O-amino acid	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	H
CF ₃	O-amino acid	H	O	6-N-acetyl-2-amino-8-methyladenine	Cl	H
CF ₃	O-amino acid	H	O	2-N-acetylamino-8-methyladenine	Cl	H
CF ₃	O-amino acid	H	O	2-N-acetylamino-8-methylhypoxanthine	Cl	H
CF ₃	O-amino acid	H	O	6-Methylthymine	Cl	O-amino acid
CF ₃	O-amino acid	H	O	6-Methyluracil	Cl	O-amino acid
CF ₃	O-amino acid	H	O	8-Methylguanine	Cl	O-amino acid
CF ₃	O-amino acid	H	O	6-Methylcytosine	Cl	O-amino acid
CF ₃	O-amino acid	H	O	8-Methyladenine	Cl	O-amino acid
CF ₃	O-amino acid	H	O	8-Methylhypoxanthine	Cl	O-amino acid
CF ₃	O-amino acid	H	O	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CF ₃	O-amino acid	H	O	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CF ₃	O-amino acid	H	O	2-Fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	O-amino acid	H	O	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	O-amino acid	H	O	2-Amino-8-methyladenine	Cl	O-amino acid
CF ₃	O-amino acid	H	O	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	O-amino acid	H	O	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CF ₃	O-amino acid	H	O	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CF ₃	O-amino acid	H	O	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CF ₃	O-amino acid	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CF ₃	O-amino acid	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	O-amino acid	H	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CF ₃	O-amino acid	H	O	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CF ₃	O-amino acid	H	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	O-amino acid	H	O	6-Methylthymine	Cl	O-acyl
CF ₃	O-amino acid	H	O	6-Methyluracil	Cl	O-acyl
CF ₃	O-amino acid	H	O	8-Methylguanine	Cl	O-acyl
CF ₃	O-amino acid	H	O	6-Methylcytosine	Cl	O-acyl
CF ₃	O-amino acid	H	O	8-Methyladenine	Cl	O-acyl

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-amino acid	H	O	8-Methylhypoxanthine	Cl	O-acyl
CF ₃	O-amino acid	H	O	5-Fluoro-6-Methyluracil	Cl	O-acyl
CF ₃	O-amino acid	H	O	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CF ₃	O-amino acid	H	O	2-Fluoro-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	H	O	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-amino acid	H	O	2-Amino-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	H	O	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-amino acid	H	O	2-N-acetyl-8-methylguanine	Cl	O-acyl
CF ₃	O-amino acid	H	O	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CF ₃	O-amino acid	H	O	6-N-acetyl-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CF ₃	O-amino acid	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	H	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	H	O	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	H	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-amino acid	H	O	6-Methylthymine	Cl	OH
CF ₃	O-amino acid	H	O	6-Methyluracil	Cl	OH
CF ₃	O-amino acid	H	O	8-Methylguanine	Cl	OH
CF ₃	O-amino acid	H	O	6-Methylcytosine	Cl	OH
CF ₃	O-amino acid	H	O	8-Methyladenine	Cl	OH
CF ₃	O-amino acid	H	O	8-Methylhypoxanthine	Cl	OH
CF ₃	O-amino acid	H	O	5-Fluoro-6-Methyluracil	Cl	OH
CF ₃	O-amino acid	H	O	5-Fluoro-6-Methylcytosine	Cl	OH
CF ₃	O-amino acid	H	O	2-Fluoro-8-methyladenine	Cl	OH
CF ₃	O-amino acid	H	O	2-Fluoro-8-methylhypoxanthine	Cl	OH
CF ₃	O-amino acid	H	O	2-Amino-8-methyladenine	Cl	OH
CF ₃	O-amino acid	H	O	2-Amino-8-methylhypoxanthine	Cl	OH
CF ₃	O-amino acid	H	O	2-N-acetyl-8-methylguanine	Cl	OH
CF ₃	O-amino acid	H	O	4-N-acetyl-8-methylcytosine	Cl	OH
CF ₃	O-amino acid	H	O	6-N-acetyl-8-methyladenine	Cl	OH
CF ₃	O-amino acid	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	OH
CF ₃	O-amino acid	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	OH
CF ₃	O-amino acid	H	O	6-N-acetyl-2-amino-8-methyladenine	Cl	OH
CF ₃	O-amino acid	H	O	2-N-acetylamino-8-methyladenine	Cl	OH
CF ₃	O-amino acid	H	O	2-N-acetylamino-8-methylhypoxanthine	Cl	OH
CF ₃	O-amino acid	H	O	6-Methylthymine	H	H
CF ₃	O-amino acid	H	O	6-Methyluracil	H	H
CF ₃	O-amino acid	H	O	8-Methylguanine	H	H
CF ₃	O-amino acid	H	O	6-Methylcytosine	H	H
CF ₃	O-amino acid	H	O	8-Methyladenine	H	H
CF ₃	O-amino acid	H	O	8-Methylhypoxanthine	H	H
CF ₃	O-amino acid	H	O	5-Fluoro-6-Methyluracil	H	H
CF ₃	O-amino acid	H	O	5-Fluoro-6-Methylcytosine	H	H
CF ₃	O-amino acid	H	O	2-Fluoro-8-methyladenine	H	H
CF ₃	O-amino acid	H	O	2-Fluoro-8-methylhypoxanthine	H	H
CF ₃	O-amino acid	H	O	2-Amino-8-methyladenine	H	H
CF ₃	O-amino acid	H	O	2-Amino-8-methylhypoxanthine	H	H
CF ₃	O-amino acid	H	O	2-N-acetyl-8-methylguanine	H	H
CF ₃	O-amino acid	H	O	4-N-acetyl-8-methylcytosine	H	H
CF ₃	O-amino acid	H	O	6-N-acetyl-8-methyladenine	H	H
CF ₃	O-amino acid	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	H
CF ₃	O-amino acid	H	O	6-N-acetyl-2-fluoro-8-methyladenine	H	H
CF ₃	O-amino acid	H	O	6-N-acetyl-2-amino-8-methyladenine	H	H
CF ₃	O-amino acid	H	O	2-N-acetylamino-8-methyladenine	H	H
CF ₃	O-amino acid	H	O	2-N-acetylamino-8-methylhypoxanthine	H	H
CF ₃	O-amino acid	H	O	6-Methylthymine	H	O-amino acid
CF ₃	O-amino acid	H	O	6-Methyluracil	H	O-amino acid
CF ₃	O-amino acid	H	O	8-Methylguanine	H	O-amino acid
CF ₃	O-amino acid	H	O	6-Methylcytosine	H	O-amino acid
CF ₃	O-amino acid	H	O	8-Methyladenine	H	O-amino acid
CF ₃	O-amino acid	H	O	8-Methylhypoxanthine	H	O-amino acid
CF ₃	O-amino acid	H	O	5-Fluoro-6-Methyluracil	H	O-amino acid
CF ₃	O-amino acid	H	O	5-Fluoro-6-Methylcytosine	H	O-amino acid
CF ₃	O-amino acid	H	O	2-Fluoro-8-methyladenine	H	O-amino acid
CF ₃	O-amino acid	H	O	2-Fluoro-8-methylhypoxanthine	H	O-amino acid
CF ₃	O-amino acid	H	O	2-Amino-8-methyladenine	H	O-amino acid
CF ₃	O-amino acid	H	O	2-Amino-8-methylhypoxanthine	H	O-amino acid
CF ₃	O-amino acid	H	O	2-N-acetyl-8-methylguanine	H	O-amino acid
CF ₃	O-amino acid	H	O	4-N-acetyl-8-methylcytosine	H	O-amino acid
CF ₃	O-amino acid	H	O	6-N-acetyl-8-methyladenine	H	O-amino acid
CF ₃	O-amino acid	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-amino acid
CF ₃	O-amino acid	H	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-amino acid
CF ₃	O-amino acid	H	O	6-N-acetyl-2-amino-8-methyladenine	H	O-amino acid
CF ₃	O-amino acid	H	O	2-N-acetylamino-8-methyladenine	H	O-amino acid
CF ₃	O-amino acid	H	O	2-N-acetylamino-8-methylhypoxanthine	H	O-amino acid

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-amino acid	H	O	2-N-acetylamino-8-methylhypoxanthine	H	O-amino acid
CF ₃	O-amino acid	H	O	6-Methylthymine	H	O-acyl
CF ₃	O-amino acid	H	O	6-Methyluracil	H	O-acyl
CF ₃	O-amino acid	H	O	8-Methylguanine	H	O-acyl
CF ₃	O-amino acid	H	O	6-Methylcytosine	H	O-acyl
CF ₃	O-amino acid	H	O	8-Methyladenine	H	O-acyl
CF ₃	O-amino acid	H	O	8-Methylhypoxanthine	H	O-acyl
CF ₃	O-amino acid	H	O	5-Fluoro-6-Methyluracil	H	O-acyl
CF ₃	O-amino acid	H	O	5-Fluoro-6-Methylcytosine	H	O-acyl
CF ₃	O-amino acid	H	O	2-Fluoro-8-methyladenine	H	O-acyl
CF ₃	O-amino acid	H	O	2-Fluoro-8-methylhypoxanthine	H	O-acyl
CF ₃	O-amino acid	H	O	2-Amino-8-methyladenine	H	O-acyl
CF ₃	O-amino acid	H	O	2-Amino-8-methylhypoxanthine	H	O-acyl
CF ₃	O-amino acid	H	O	2-N-acetyl-8-methylguanine	H	O-acyl
CF ₃	O-amino acid	H	O	4-N-acetyl-8-methylcytosine	H	O-acyl
CF ₃	O-amino acid	H	O	6-N-acetyl-8-methyladenine	H	O-acyl
CF ₃	O-amino acid	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-acyl
CF ₃	O-amino acid	H	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-acyl
CF ₃	O-amino acid	H	O	6-N-acetyl-2-amino-8-methyladenine	H	O-acyl
CF ₃	O-amino acid	H	O	2-N-acetylamino-8-methyladenine	H	O-acyl
CF ₃	O-amino acid	H	O	2-N-acetylamino-8-methylhypoxanthine	H	O-acyl
CF ₃	O-amino acid	H	O	6-Methylthymine	H	OH
CF ₃	O-amino acid	H	O	6-Methyluracil	H	OH
CF ₃	O-amino acid	H	O	8-Methylguanine	H	OH
CF ₃	O-amino acid	H	O	6-Methylcytosine	H	OH
CF ₃	O-amino acid	H	O	8-Methyladenine	H	OH
CF ₃	O-amino acid	H	O	8-Methylhypoxanthine	H	OH
CF ₃	O-amino acid	H	O	5-Fluoro-6-Methyluracil	H	OH
CF ₃	O-amino acid	H	O	5-Fluoro-6-Methylcytosine	H	OH
CF ₃	O-amino acid	H	O	2-Fluoro-8-methyladenine	H	OH
CF ₃	O-amino acid	H	O	2-Fluoro-8-methylhypoxanthine	H	OH
CF ₃	O-amino acid	H	O	2-Amino-8-methyladenine	H	OH
CF ₃	O-amino acid	H	O	2-Amino-8-methylhypoxanthine	H	OH
CF ₃	O-amino acid	H	O	2-N-acetyl-8-methylguanine	H	OH
CF ₃	O-amino acid	H	O	4-N-acetyl-8-methylcytosine	H	OH
CF ₃	O-amino acid	H	O	6-N-acetyl-8-methyladenine	H	OH
CF ₃	O-amino acid	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	OH
CF ₃	O-amino acid	H	O	6-N-acetyl-2-fluoro-8-methyladenine	H	OH
CF ₃	O-amino acid	H	O	6-N-acetyl-2-amino-8-methyladenine	H	OH
CF ₃	O-amino acid	H	O	2-N-acetylamino-8-methyladenine	H	OH
CF ₃	O-amino acid	H	O	2-N-acetylamino-8-methylhypoxanthine	H	OH
CF ₃	O-amino acid	H	O	6-Methylthymine	OH	H
CF ₃	O-amino acid	H	O	6-Methyluracil	OH	H
CF ₃	O-amino acid	H	O	8-Methylguanine	OH	H
CF ₃	O-amino acid	H	O	6-Methylcytosine	OH	H
CF ₃	O-amino acid	H	O	8-Methyladenine	OH	H
CF ₃	O-amino acid	H	O	8-Methylhypoxanthine	OH	H
CF ₃	O-amino acid	H	O	5-Fluoro-6-Methyluracil	OH	H
CF ₃	O-amino acid	H	O	5-Fluoro-6-Methylcytosine	OH	H
CF ₃	O-amino acid	H	O	2-Fluoro-8-methyladenine	OH	H
CF ₃	O-amino acid	H	O	2-Fluoro-8-methylhypoxanthine	OH	H
CF ₃	O-amino acid	H	O	2-Amino-8-methyladenine	OH	H
CF ₃	O-amino acid	H	O	2-Amino-8-methylhypoxanthine	OH	H
CF ₃	O-amino acid	H	O	2-N-acetyl-8-methylguanine	OH	H
CF ₃	O-amino acid	H	O	4-N-acetyl-8-methylcytosine	OH	H
CF ₃	O-amino acid	H	O	6-N-acetyl-8-methyladenine	OH	H
CF ₃	O-amino acid	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	OH	H
CF ₃	O-amino acid	H	O	6-N-acetyl-2-fluoro-8-methyladenine	OH	H
CF ₃	O-amino acid	H	O	6-N-acetyl-2-amino-8-methyladenine	OH	H
CF ₃	O-amino acid	H	O	2-N-acetylamino-8-methyladenine	OH	H
CF ₃	O-amino acid	H	O	2-N-acetylamino-8-methylhypoxanthine	OH	H
CF ₃	OH	F	O	6-Methylthymine	F	O-amino acid
CF ₃	OH	F	O	6-Methyluracil	F	O-amino acid
CF ₃	OH	F	O	8-Methylguanine	F	O-amino acid
CF ₃	OH	F	O	6-Methylcytosine	F	O-amino acid
CF ₃	OH	F	O	8-Methyladenine	F	O-amino acid
CF ₃	OH	F	O	8-Methylhypoxanthine	F	O-amino acid
CF ₃	OH	F	O	5-Fluoro-6-Methyluracil	F	O-amino acid
CF ₃	OH	F	O	5-Fluoro-6-Methylcytosine	F	O-amino acid
CF ₃	OH	F	O	2-Fluoro-8-methyladenine	F	O-amino acid
CF ₃	OH	F	O	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CF ₃	OH	F	O	2-Amino-8-methyladenine	F	O-amino acid
CF ₃	OH	F	O	2-Amino-8-methylhypoxanthine	F	O-amino acid

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	OH	F	O	2-N-acetyl-8-methylguanine	F	O-amino acid
CF ₃	OH	F	O	4-N-acetyl-8-methylcytosine	F	O-amino acid
CF ₃	OH	F	O	6-N-acetyl-8-methyladenine	F	O-amino acid
CF ₃	OH	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CF ₃	OH	F	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CF ₃	OH	F	O	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CF ₃	OH	F	O	2-N-acetylamino-8-methyladenine	F	O-amino acid
CF ₃	OH	F	O	2-N-acetylamino-8-methylhypoxanthine	F	O-amino acid
CF ₃	OH	F	O	6-Methylthymine	F	O-acyl
CF ₃	OH	F	O	6-Methyluracil	F	O-acyl
CF ₃	OH	F	O	8-Methylguanine	F	O-acyl
CF ₃	OH	F	O	6-Methylcytosine	F	O-acyl
CF ₃	OH	F	O	8-Methyladenine	F	O-acyl
CF ₃	OH	F	O	8-Methylhypoxanthine	F	O-acyl
CF ₃	OH	F	O	5-Fluoro-6-Methyluracil	F	O-acyl
CF ₃	OH	F	O	5-Fluoro-6-Methylcytosine	F	O-acyl
CF ₃	OH	F	O	2-Fluoro-8-methyladenine	F	O-acyl
CF ₃	OH	F	O	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CF ₃	OH	F	O	2-Amino-8-methyladenine	F	O-acyl
CF ₃	OH	F	O	2-Amino-8-methylhypoxanthine	F	O-acyl
CF ₃	OH	F	O	2-N-acetyl-8-methylguanine	F	O-acyl
CF ₃	OH	F	O	4-N-acetyl-8-methylcytosine	F	O-acyl
CF ₃	OH	F	O	6-N-acetyl-8-methyladenine	F	O-acyl
CF ₃	OH	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CF ₃	OH	F	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CF ₃	OH	F	O	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CF ₃	OH	F	O	2-N-acetylamino-8-methyladenine	F	O-acyl
CF ₃	OH	F	O	2-N-acetylamino-8-methylhypoxanthine	F	O-acyl
CF ₃	OH	F	O	6-Methylthymine	Br	O-amino acid
CF ₃	OH	F	O	6-Methyluracil	Br	O-amino acid
CF ₃	OH	F	O	8-Methylguanine	Br	O-amino acid
CF ₃	OH	F	O	6-Methylcytosine	Br	O-amino acid
CF ₃	OH	F	O	8-Methyladenine	Br	O-amino acid
CF ₃	OH	F	O	8-Methylhypoxanthine	Br	O-amino acid
CF ₃	OH	F	O	5-Fluoro-6-Methyluracil	Br	O-amino acid
CF ₃	OH	F	O	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CF ₃	OH	F	O	2-Fluoro-8-methyladenine	Br	O-amino acid
CF ₃	OH	F	O	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CF ₃	OH	F	O	2-Amino-8-methyladenine	Br	O-amino acid
CF ₃	OH	F	O	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CF ₃	OH	F	O	2-N-acetyl-8-methylguanine	Br	O-amino acid
CF ₃	OH	F	O	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CF ₃	OH	F	O	6-N-acetyl-8-methyladenine	Br	O-amino acid
CF ₃	OH	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CF ₃	OH	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CF ₃	OH	F	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CF ₃	OH	F	O	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CF ₃	OH	F	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-amino acid
CF ₃	OH	F	O	6-Methylthymine	Br	O-acyl
CF ₃	OH	F	O	6-Methyluracil	Br	O-acyl
CF ₃	OH	F	O	8-Methylguanine	Br	O-acyl
CF ₃	OH	F	O	6-Methylcytosine	Br	O-acyl
CF ₃	OH	F	O	8-Methyladenine	Br	O-acyl
CF ₃	OH	F	O	8-Methylhypoxanthine	Br	O-acyl
CF ₃	OH	F	O	5-Fluoro-6-Methyluracil	Br	O-acyl
CF ₃	OH	F	O	5-Fluoro-6-Methylcytosine	Br	O-acyl
CF ₃	OH	F	O	2-Fluoro-8-methyladenine	Br	O-acyl
CF ₃	OH	F	O	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CF ₃	OH	F	O	2-Amino-8-methyladenine	Br	O-acyl
CF ₃	OH	F	O	2-Amino-8-methylhypoxanthine	Br	O-acyl
CF ₃	OH	F	O	2-N-acetyl-8-methylguanine	Br	O-acyl
CF ₃	OH	F	O	4-N-acetyl-8-methylcytosine	Br	O-acyl
CF ₃	OH	F	O	6-N-acetyl-8-methyladenine	Br	O-acyl
CF ₃	OH	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CF ₃	OH	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CF ₃	OH	F	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CF ₃	OH	F	O	2-N-acetylamino-8-methyladenine	Br	O-acyl
CF ₃	OH	F	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-acyl
CF ₃	OH	F	O	6-Methylthymine	Cl	O-amino acid
CF ₃	OH	F	O	6-Methyluracil	Cl	O-amino acid
CF ₃	OH	F	O	8-Methylguanine	Cl	O-amino acid
CF ₃	OH	F	O	6-Methylcytosine	Cl	O-amino acid
CF ₃	OH	F	O	8-Methyladenine	Cl	O-amino acid

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	OH	F	O	8-Methylhypoxanthine	Cl	O-amino acid
CF ₃	OH	F	O	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CF ₃	OH	F	O	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CF ₃	OH	F	O	2-Fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	OH	F	O	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	OH	F	O	2-Amino-8-methyladenine	Cl	O-amino acid
CF ₃	OH	F	O	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	OH	F	O	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CF ₃	OH	F	O	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CF ₃	OH	F	O	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CF ₃	OH	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CF ₃	OH	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	OH	F	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CF ₃	OH	F	O	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CF ₃	OH	F	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	OH	F	O	6-Methylthymine	Cl	O-acyl
CF ₃	OH	F	O	6-Methyluracil	Cl	O-acyl
CF ₃	OH	F	O	8-Methylguanine	Cl	O-acyl
CF ₃	OH	F	O	6-Methylcytosine	Cl	O-acyl
CF ₃	OH	F	O	8-Methyladenine	Cl	O-acyl
CF ₃	OH	F	O	8-Methylhypoxanthine	Cl	O-acyl
CF ₃	OH	F	O	5-Fluoro-6-Methyluracil	Cl	O-acyl
CF ₃	OH	F	O	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CF ₃	OH	F	O	2-Fluoro-8-methyladenine	Cl	O-acyl
CF ₃	OH	F	O	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CF ₃	OH	F	O	2-Amino-8-methyladenine	Cl	O-acyl
CF ₃	OH	F	O	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CF ₃	OH	F	O	2-N-acetyl-8-methylguanine	Cl	O-acyl
CF ₃	OH	F	O	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CF ₃	OH	F	O	6-N-acetyl-8-methyladenine	Cl	O-acyl
CF ₃	OH	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CF ₃	OH	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CF ₃	OH	F	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CF ₃	OH	F	O	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CF ₃	OH	F	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-acyl
CF ₃	OH	F	O	6-Methylthymine	H	O-amino acid
CF ₃	OH	F	O	6-Methyluracil	H	O-amino acid
CF ₃	OH	F	O	8-Methylguanine	H	O-amino acid
CF ₃	OH	F	O	6-Methylcytosine	H	O-amino acid
CF ₃	OH	F	O	8-Methyladenine	H	O-amino acid
CF ₃	OH	F	O	8-Methylhypoxanthine	H	O-amino acid
CF ₃	OH	F	O	5-Fluoro-6-Methyluracil	H	O-amino acid
CF ₃	OH	F	O	5-Fluoro-6-Methylcytosine	H	O-amino acid
CF ₃	OH	F	O	2-Fluoro-8-methyladenine	H	O-amino acid
CF ₃	OH	F	O	2-Fluoro-8-methylhypoxanthine	H	O-amino acid
CF ₃	OH	F	O	2-Amino-8-methyladenine	H	O-amino acid
CF ₃	OH	F	O	2-Amino-8-methylhypoxanthine	H	O-amino acid
CF ₃	OH	F	O	2-N-acetyl-8-methylguanine	H	O-amino acid
CF ₃	OH	F	O	4-N-acetyl-8-methylcytosine	H	O-amino acid
CF ₃	OH	F	O	6-N-acetyl-8-methyladenine	H	O-amino acid
CF ₃	OH	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-amino acid
CF ₃	OH	F	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-amino acid
CF ₃	OH	F	O	6-N-acetyl-2-amino-8-methyladenine	H	O-amino acid
CF ₃	OH	F	O	2-N-acetylamino-8-methyladenine	H	O-amino acid
CF ₃	OH	F	O	2-N-acetylamino-8-methylhypoxanthine	H	O-amino acid
CF ₃	OH	F	O	6-Methylthymine	H	O-acyl
CF ₃	OH	F	O	6-Methyluracil	H	O-acyl
CF ₃	OH	F	O	8-Methylguanine	H	O-acyl
CF ₃	OH	F	O	6-Methylcytosine	H	O-acyl
CF ₃	OH	F	O	8-Methyladenine	H	O-acyl
CF ₃	OH	F	O	8-Methylhypoxanthine	H	O-acyl
CF ₃	OH	F	O	5-Fluoro-6-Methyluracil	H	O-acyl
CF ₃	OH	F	O	5-Fluoro-6-Methylcytosine	H	O-acyl
CF ₃	OH	F	O	2-Fluoro-8-methyladenine	H	O-acyl
CF ₃	OH	F	O	2-Fluoro-8-methylhypoxanthine	H	O-acyl
CF ₃	OH	F	O	2-Amino-8-methyladenine	H	O-acyl
CF ₃	OH	F	O	2-Amino-8-methylhypoxanthine	H	O-acyl
CF ₃	OH	F	O	2-N-acetyl-8-methylguanine	H	O-acyl
CF ₃	OH	F	O	4-N-acetyl-8-methylcytosine	H	O-acyl
CF ₃	OH	F	O	6-N-acetyl-8-methyladenine	H	O-acyl
CF ₃	OH	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-acyl
CF ₃	OH	F	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-acyl
CF ₃	OH	F	O	6-N-acetyl-2-amino-8-methyladenine	H	O-acyl
CF ₃	OH	F	O	2-N-acetylamino-8-methyladenine	H	O-acyl
CF ₃	OH	F	O	2-N-acetylamino-8-methylhypoxanthine	H	O-acyl

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	OH	F	O	2-N-acetylamino-8-methylhypoxanthine	H	O-acyl
CF ₃	OH	Br	O	6-Methylthymine	F	O-amino acid
CF ₃	OH	Br	O	6-Methyluracil	F	O-amino acid
CF ₃	OH	Br	O	8-Methylguanine	F	O-amino acid
CF ₃	OH	Br	O	6-Methylcytosine	F	O-amino acid
CF ₃	OH	Br	O	8-Methyladenine	F	O-amino acid
CF ₃	OH	Br	O	8-Methylhypoxanthine	F	O-amino acid
CF ₃	OH	Br	O	5-Fluoro-6-Methyluracil	F	O-amino acid
CF ₃	OH	Br	O	5-Fluoro-6-Methylcytosine	F	O-amino acid
CF ₃	OH	Br	O	2-Fluoro-8-methyladenine	F	O-amino acid
CF ₃	OH	Br	O	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CF ₃	OH	Br	O	2-Amino-8-methyladenine	F	O-amino acid
CF ₃	OH	Br	O	2-Amino-8-methylhypoxanthine	F	O-amino acid
CF ₃	OH	Br	O	2-N-acetyl-8-methylguanine	F	O-amino acid
CF ₃	OH	Br	O	4-N-acetyl-8-methylcytosine	F	O-amino acid
CF ₃	OH	Br	O	6-N-acetyl-8-methyladenine	F	O-amino acid
CF ₃	OH	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CF ₃	OH	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CF ₃	OH	Br	O	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CF ₃	OH	Br	O	2-N-acetylamino-8-methyladenine	F	O-amino acid
CF ₃	OH	Br	O	2-N-acetylamino-8-methylhypoxanthine	F	O-amino acid
CF ₃	OH	Br	O	6-Methylthymine	F	O-acyl
CF ₃	OH	Br	O	6-Methyluracil	F	O-acyl
CF ₃	OH	Br	O	8-Methylguanine	F	O-acyl
CF ₃	OH	Br	O	6-Methylcytosine	F	O-acyl
CF ₃	OH	Br	O	8-Methyladenine	F	O-acyl
CF ₃	OH	Br	O	8-Methylhypoxanthine	F	O-acyl
CF ₃	OH	Br	O	5-Fluoro-6-Methyluracil	F	O-acyl
CF ₃	OH	Br	O	5-Fluoro-6-Methylcytosine	F	O-acyl
CF ₃	OH	Br	O	2-Fluoro-8-methyladenine	F	O-acyl
CF ₃	OH	Br	O	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CF ₃	OH	Br	O	2-Amino-8-methyladenine	F	O-acyl
CF ₃	OH	Br	O	2-Amino-8-methylhypoxanthine	F	O-acyl
CF ₃	OH	Br	O	2-N-acetyl-8-methylguanine	F	O-acyl
CF ₃	OH	Br	O	4-N-acetyl-8-methylcytosine	F	O-acyl
CF ₃	OH	Br	O	6-N-acetyl-8-methyladenine	F	O-acyl
CF ₃	OH	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CF ₃	OH	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CF ₃	OH	Br	O	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CF ₃	OH	Br	O	2-N-acetylamino-8-methyladenine	F	O-acyl
CF ₃	OH	Br	O	2-N-acetylamino-8-methylhypoxanthine	F	O-acyl
CF ₃	OH	Br	O	6-Methylthymine	Br	O-amino acid
CF ₃	OH	Br	O	6-Methyluracil	Br	O-amino acid
CF ₃	OH	Br	O	8-Methylguanine	Br	O-amino acid
CF ₃	OH	Br	O	6-Methylcytosine	Br	O-amino acid
CF ₃	OH	Br	O	8-Methyladenine	Br	O-amino acid
CF ₃	OH	Br	O	8-Methylhypoxanthine	Br	O-amino acid
CF ₃	OH	Br	O	5-Fluoro-6-Methyluracil	Br	O-amino acid
CF ₃	OH	Br	O	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CF ₃	OH	Br	O	2-Fluoro-8-methyladenine	Br	O-amino acid
CF ₃	OH	Br	O	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CF ₃	OH	Br	O	2-Amino-8-methyladenine	Br	O-amino acid
CF ₃	OH	Br	O	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CF ₃	OH	Br	O	2-N-acetyl-8-methylguanine	Br	O-amino acid
CF ₃	OH	Br	O	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CF ₃	OH	Br	O	6-N-acetyl-8-methyladenine	Br	O-amino acid
CF ₃	OH	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CF ₃	OH	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CF ₃	OH	Br	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CF ₃	OH	Br	O	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CF ₃	OH	Br	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-amino acid
CF ₃	OH	Br	O	6-Methylthymine	Br	O-acyl
CF ₃	OH	Br	O	6-Methyluracil	Br	O-acyl
CF ₃	OH	Br	O	8-Methylguanine	Br	O-acyl
CF ₃	OH	Br	O	6-Methylcytosine	Br	O-acyl
CF ₃	OH	Br	O	8-Methyladenine	Br	O-acyl
CF ₃	OH	Br	O	8-Methylhypoxanthine	Br	O-acyl
CF ₃	OH	Br	O	5-Fluoro-6-Methyluracil	Br	O-acyl
CF ₃	OH	Br	O	5-Fluoro-6-Methylcytosine	Br	O-acyl
CF ₃	OH	Br	O	2-Fluoro-8-methyladenine	Br	O-acyl
CF ₃	OH	Br	O	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CF ₃	OH	Br	O	2-Amino-8-methyladenine	Br	O-acyl
CF ₃	OH	Br	O	2-Amino-8-methylhypoxanthine	Br	O-acyl

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	OH	Br	O	2-N-acetyl-8-methylguanine	Br	O-acyl
CF ₃	OH	Br	O	4-N-acetyl-8-methylcytosine	Br	O-acyl
CF ₃	OH	Br	O	6-N-acetyl-8-methyladenine	Br	O-acyl
CF ₃	OH	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CF ₃	OH	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CF ₃	OH	Br	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CF ₃	OH	Br	O	2-N-acetylamino-8-methyladenine	Br	O-acyl
CF ₃	OH	Br	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-acyl
CF ₃	OH	Br	O	6-Methylthymine	Cl	O-amino acid
CF ₃	OH	Br	O	6-Methyluracil	Cl	O-amino acid
CF ₃	OH	Br	O	8-Methylguanine	Cl	O-amino acid
CF ₃	OH	Br	O	6-Methylcytosine	Cl	O-amino acid
CF ₃	OH	Br	O	8-Methyladenine	Cl	O-amino acid
CF ₃	OH	Br	O	8-Methylhypoxanthine	Cl	O-amino acid
CF ₃	OH	Br	O	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CF ₃	OH	Br	O	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CF ₃	OH	Br	O	2-Fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	OH	Br	O	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	OH	Br	O	2-Amino-8-methyladenine	Cl	O-amino acid
CF ₃	OH	Br	O	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	OH	Br	O	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CF ₃	OH	Br	O	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CF ₃	OH	Br	O	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CF ₃	OH	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CF ₃	OH	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	OH	Br	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CF ₃	OH	Br	O	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CF ₃	OH	Br	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	OH	Br	O	6-Methylthymine	Cl	O-acyl
CF ₃	OH	Br	O	6-Methyluracil	Cl	O-acyl
CF ₃	OH	Br	O	8-Methylguanine	Cl	O-acyl
CF ₃	OH	Br	O	6-Methylcytosine	Cl	O-acyl
CF ₃	OH	Br	O	8-Methyladenine	Cl	O-acyl
CF ₃	OH	Br	O	8-Methylhypoxanthine	Cl	O-acyl
CF ₃	OH	Br	O	5-Fluoro-6-Methyluracil	Cl	O-acyl
CF ₃	OH	Br	O	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CF ₃	OH	Br	O	2-Fluoro-8-methyladenine	Cl	O-acyl
CF ₃	OH	Br	O	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CF ₃	OH	Br	O	2-Amino-8-methyladenine	Cl	O-acyl
CF ₃	OH	Br	O	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CF ₃	OH	Br	O	2-N-acetyl-8-methylguanine	Cl	O-acyl
CF ₃	OH	Br	O	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CF ₃	OH	Br	O	6-N-acetyl-8-methyladenine	Cl	O-acyl
CF ₃	OH	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CF ₃	OH	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CF ₃	OH	Br	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CF ₃	OH	Br	O	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CF ₃	OH	Br	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-acyl
CF ₃	OH	Br	O	6-Methylthymine	H	O-amino acid
CF ₃	OH	Br	O	6-Methyluracil	H	O-amino acid
CF ₃	OH	Br	O	8-Methylguanine	H	O-amino acid
CF ₃	OH	Br	O	6-Methylcytosine	H	O-amino acid
CF ₃	OH	Br	O	8-Methyladenine	H	O-amino acid
CF ₃	OH	Br	O	8-Methylhypoxanthine	H	O-amino acid
CF ₃	OH	Br	O	5-Fluoro-6-Methyluracil	H	O-amino acid
CF ₃	OH	Br	O	5-Fluoro-6-Methylcytosine	H	O-amino acid
CF ₃	OH	Br	O	2-Fluoro-8-methyladenine	H	O-amino acid
CF ₃	OH	Br	O	2-Fluoro-8-methylhypoxanthine	H	O-amino acid
CF ₃	OH	Br	O	2-Amino-8-methyladenine	H	O-amino acid
CF ₃	OH	Br	O	2-Amino-8-methylhypoxanthine	H	O-amino acid
CF ₃	OH	Br	O	2-N-acetyl-8-methylguanine	H	O-amino acid
CF ₃	OH	Br	O	4-N-acetyl-8-methylcytosine	H	O-amino acid
CF ₃	OH	Br	O	6-N-acetyl-8-methyladenine	H	O-amino acid
CF ₃	OH	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-amino acid
CF ₃	OH	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-amino acid
CF ₃	OH	Br	O	6-N-acetyl-2-amino-8-methyladenine	H	O-amino acid
CF ₃	OH	Br	O	2-N-acetylamino-8-methyladenine	H	O-amino acid
CF ₃	OH	Br	O	2-N-acetylamino-8-methylhypoxanthine	H	O-amino acid
CF ₃	OH	Br	O	6-Methylthymine	H	O-acyl
CF ₃	OH	Br	O	6-Methyluracil	H	O-acyl
CF ₃	OH	Br	O	8-Methylguanine	H	O-acyl
CF ₃	OH	Br	O	6-Methylcytosine	H	O-acyl
CF ₃	OH	Br	O	8-Methyladenine	H	O-acyl

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	OH	Br	O	8-Methylhypoxanthine	H	O-acyl
CF ₃	OH	Br	O	5-Fluoro-6-Methyluracil	H	O-acyl
CF ₃	OH	Br	O	5-Fluoro-6-Methylcytosine	H	O-acyl
CF ₃	OH	Br	O	2-Fluoro-8-methyladenine	H	O-acyl
CF ₃	OH	Br	O	2-Fluoro-8-methylhypoxanthine	H	O-acyl
CF ₃	OH	Br	O	2-Amino-8-methyladenine	H	O-acyl
CF ₃	OH	Br	O	2-Amino-8-methylhypoxanthine	H	O-acyl
CF ₃	OH	Br	O	2-N-acetyl-8-methylguanine	H	O-acyl
CF ₃	OH	Br	O	4-N-acetyl-8-methylcytosine	H	O-acyl
CF ₃	OH	Br	O	6-N-acetyl-8-methyladenine	H	O-acyl
CF ₃	OH	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-acyl
CF ₃	OH	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-acyl
CF ₃	OH	Br	O	6-N-acetyl-2-amino-8-methyladenine	H	O-acyl
CF ₃	OH	Br	O	2-N-acetylamino-8-methyladenine	H	O-acyl
CF ₃	OH	Br	O	2-N-acetylamino-8-methylhypoxanthine	H	O-acyl
CF ₃	OH	Cl	O	6-Methylthymine	F	O-amino acid
CF ₃	OH	Cl	O	6-Methyluracil	F	O-amino acid
CF ₃	OH	Cl	O	8-Methylguanine	F	O-amino acid
CF ₃	OH	Cl	O	6-Methylcytosine	F	O-amino acid
CF ₃	OH	Cl	O	8-Methyladenine	F	O-amino acid
CF ₃	OH	Cl	O	8-Methylhypoxanthine	F	O-amino acid
CF ₃	OH	Cl	O	5-Fluoro-6-Methyluracil	F	O-amino acid
CF ₃	OH	Cl	O	5-Fluoro-6-Methylcytosine	F	O-amino acid
CF ₃	OH	Cl	O	2-Fluoro-8-methyladenine	F	O-amino acid
CF ₃	OH	Cl	O	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CF ₃	OH	Cl	O	2-Amino-8-methyladenine	F	O-amino acid
CF ₃	OH	Cl	O	2-Amino-8-methylhypoxanthine	F	O-amino acid
CF ₃	OH	Cl	O	2-N-acetyl-8-methylguanine	F	O-amino acid
CF ₃	OH	Cl	O	4-N-acetyl-8-methylcytosine	F	O-amino acid
CF ₃	OH	Cl	O	6-N-acetyl-8-methyladenine	F	O-amino acid
CF ₃	OH	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CF ₃	OH	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CF ₃	OH	Cl	O	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CF ₃	OH	Cl	O	2-N-acetylamino-8-methyladenine	F	O-amino acid
CF ₃	OH	Cl	O	2-N-acetylamino-8-methylhypoxanthine	F	O-amino acid
CF ₃	OH	Cl	O	6-Methylthymine	F	O-acyl
CF ₃	OH	Cl	O	6-Methyluracil	F	O-acyl
CF ₃	OH	Cl	O	8-Methylguanine	F	O-acyl
CF ₃	OH	Cl	O	6-Methylcytosine	F	O-acyl
CF ₃	OH	Cl	O	8-Methyladenine	F	O-acyl
CF ₃	OH	Cl	O	8-Methylhypoxanthine	F	O-acyl
CF ₃	OH	Cl	O	5-Fluoro-6-Methyluracil	F	O-acyl
CF ₃	OH	Cl	O	5-Fluoro-6-Methylcytosine	F	O-acyl
CF ₃	OH	Cl	O	2-Fluoro-8-methyladenine	F	O-acyl
CF ₃	OH	Cl	O	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CF ₃	OH	Cl	O	2-Amino-8-methyladenine	F	O-acyl
CF ₃	OH	Cl	O	2-Amino-8-methylhypoxanthine	F	O-acyl
CF ₃	OH	Cl	O	2-N-acetyl-8-methylguanine	F	O-acyl
CF ₃	OH	Cl	O	4-N-acetyl-8-methylcytosine	F	O-acyl
CF ₃	OH	Cl	O	6-N-acetyl-8-methyladenine	F	O-acyl
CF ₃	OH	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CF ₃	OH	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CF ₃	OH	Cl	O	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CF ₃	OH	Cl	O	2-N-acetylamino-8-methyladenine	F	O-acyl
CF ₃	OH	Cl	O	2-N-acetylamino-8-methylhypoxanthine	F	O-acyl
CF ₃	OH	Cl	O	6-Methylthymine	Br	O-amino acid
CF ₃	OH	Cl	O	6-Methyluracil	Br	O-amino acid
CF ₃	OH	Cl	O	8-Methylguanine	Br	O-amino acid
CF ₃	OH	Cl	O	6-Methylcytosine	Br	O-amino acid
CF ₃	OH	Cl	O	8-Methyladenine	Br	O-amino acid
CF ₃	OH	Cl	O	8-Methylhypoxanthine	Br	O-amino acid
CF ₃	OH	Cl	O	5-Fluoro-6-Methyluracil	Br	O-amino acid
CF ₃	OH	Cl	O	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CF ₃	OH	Cl	O	2-Fluoro-8-methyladenine	Br	O-amino acid
CF ₃	OH	Cl	O	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CF ₃	OH	Cl	O	2-Amino-8-methyladenine	Br	O-amino acid
CF ₃	OH	Cl	O	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CF ₃	OH	Cl	O	2-N-acetyl-8-methylguanine	Br	O-amino acid
CF ₃	OH	Cl	O	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CF ₃	OH	Cl	O	6-N-acetyl-8-methyladenine	Br	O-amino acid
CF ₃	OH	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CF ₃	OH	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CF ₃	OH	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CF ₃	OH	Cl	O	2-N-acetylamino-8-methyladenine	Br	O-amino acid

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	OH	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-amino acid
CF ₃	OH	Cl	O	6-Methylthymine	Br	O-acyl
CF ₃	OH	Cl	O	6-Methyluracil	Br	O-acyl
CF ₃	OH	Cl	O	8-Methylguanine	Br	O-acyl
CF ₃	OH	Cl	O	6-Methylcytosine	Br	O-acyl
CF ₃	OH	Cl	O	8-Methyladenine	Br	O-acyl
CF ₃	OH	Cl	O	8-Methylhypoxanthine	Br	O-acyl
CF ₃	OH	Cl	O	5-Fluoro-6-Methyluracil	Br	O-acyl
CF ₃	OH	Cl	O	5-Fluoro-6-Methylcytosine	Br	O-acyl
CF ₃	OH	Cl	O	2-Fluoro-8-methyladenine	Br	O-acyl
CF ₃	OH	Cl	O	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CF ₃	OH	Cl	O	2-Amino-8-methyladenine	Br	O-acyl
CF ₃	OH	Cl	O	2-Amino-8-methylhypoxanthine	Br	O-acyl
CF ₃	OH	Cl	O	2-N-acetyl-8-methylguanine	Br	O-acyl
CF ₃	OH	Cl	O	4-N-acetyl-8-methylcytosine	Br	O-acyl
CF ₃	OH	Cl	O	6-N-acetyl-8-methyladenine	Br	O-acyl
CF ₃	OH	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CF ₃	OH	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CF ₃	OH	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CF ₃	OH	Cl	O	2-N-acetylamino-8-methyladenine	Br	O-acyl
CF ₃	OH	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-acyl
CF ₃	OH	Cl	O	6-Methylthymine	Cl	O-amino acid
CF ₃	OH	Cl	O	6-Methyluracil	Cl	O-amino acid
CF ₃	OH	Cl	O	8-Methylguanine	Cl	O-amino acid
CF ₃	OH	Cl	O	6-Methylcytosine	Cl	O-amino acid
CF ₃	OH	Cl	O	8-Methyladenine	Cl	O-amino acid
CF ₃	OH	Cl	O	8-Methylhypoxanthine	Cl	O-amino acid
CF ₃	OH	Cl	O	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CF ₃	OH	Cl	O	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CF ₃	OH	Cl	O	2-Fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	OH	Cl	O	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	OH	Cl	O	2-Amino-8-methyladenine	Cl	O-amino acid
CF ₃	OH	Cl	O	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	OH	Cl	O	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CF ₃	OH	Cl	O	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CF ₃	OH	Cl	O	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CF ₃	OH	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CF ₃	OH	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	OH	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CF ₃	OH	Cl	O	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CF ₃	OH	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	OH	Cl	O	6-Methylthymine	Cl	O-acyl
CF ₃	OH	Cl	O	6-Methyluracil	Cl	O-acyl
CF ₃	OH	Cl	O	8-Methylguanine	Cl	O-acyl
CF ₃	OH	Cl	O	6-Methylcytosine	Cl	O-acyl
CF ₃	OH	Cl	O	8-Methyladenine	Cl	O-acyl
CF ₃	OH	Cl	O	8-Methylhypoxanthine	Cl	O-acyl
CF ₃	OH	Cl	O	5-Fluoro-6-Methyluracil	Cl	O-acyl
CF ₃	OH	Cl	O	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CF ₃	OH	Cl	O	2-Fluoro-8-methyladenine	Cl	O-acyl
CF ₃	OH	Cl	O	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CF ₃	OH	Cl	O	2-Amino-8-methyladenine	Cl	O-acyl
CF ₃	OH	Cl	O	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CF ₃	OH	Cl	O	2-N-acetyl-8-methylguanine	Cl	O-acyl
CF ₃	OH	Cl	O	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CF ₃	OH	Cl	O	6-N-acetyl-8-methyladenine	Cl	O-acyl
CF ₃	OH	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CF ₃	OH	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CF ₃	OH	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CF ₃	OH	Cl	O	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CF ₃	OH	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-acyl
CF ₃	OH	Cl	O	6-Methylthymine	H	O-amino acid
CF ₃	OH	Cl	O	6-Methyluracil	H	O-amino acid
CF ₃	OH	Cl	O	8-Methylguanine	H	O-amino acid
CF ₃	OH	Cl	O	6-Methylcytosine	H	O-amino acid
CF ₃	OH	Cl	O	8-Methyladenine	H	O-amino acid
CF ₃	OH	Cl	O	8-Methylhypoxanthine	H	O-amino acid
CF ₃	OH	Cl	O	5-Fluoro-6-Methyluracil	H	O-amino acid
CF ₃	OH	Cl	O	5-Fluoro-6-Methylcytosine	H	O-amino acid
CF ₃	OH	Cl	O	2-Fluoro-8-methyladenine	H	O-amino acid
CF ₃	OH	Cl	O	2-Fluoro-8-methylhypoxanthine	H	O-amino acid
CF ₃	OH	Cl	O	2-Amino-8-methyladenine	H	O-amino acid
CF ₃	OH	Cl	O	2-Amino-8-methylhypoxanthine	H	O-amino acid

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	OH	Cl	O	2-N-acetyl-8-methylguanine	H	O-amino acid
CF ₃	OH	Cl	O	4-N-acetyl-8-methylcytosine	H	O-amino acid
CF ₃	OH	Cl	O	6-N-acetyl-8-methyladenine	H	O-amino acid
CF ₃	OH	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-amino acid
CF ₃	OH	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-amino acid
CF ₃	OH	Cl	O	6-N-acetyl-2-amino-8-methyladenine	H	O-amino acid
CF ₃	OH	Cl	O	2-N-acetylamino-8-methyladenine	H	O-amino acid
CF ₃	OH	Cl	O	2-N-acetylamino-8-methylhypoxanthine	H	O-amino acid
CF ₃	OH	Cl	O	6-Methylthymine	H	O-acyl
CF ₃	OH	Cl	O	6-Methyluracil	H	O-acyl
CF ₃	OH	Cl	O	8-Methylguanine	H	O-acyl
CF ₃	OH	Cl	O	6-Methylcytosine	H	O-acyl
CF ₃	OH	Cl	O	8-Methyladenine	H	O-acyl
CF ₃	OH	Cl	O	8-Methylhypoxanthine	H	O-acyl
CF ₃	OH	Cl	O	5-Fluoro-6-Methyluracil	H	O-acyl
CF ₃	OH	Cl	O	5-Fluoro-6-Methylcytosine	H	O-acyl
CF ₃	OH	Cl	O	2-Fluoro-8-methyladenine	H	O-acyl
CF ₃	OH	Cl	O	2-Fluoro-8-methylhypoxanthine	H	O-acyl
CF ₃	OH	Cl	O	2-Amino-8-methyladenine	H	O-acyl
CF ₃	OH	Cl	O	2-Amino-8-methylhypoxanthine	H	O-acyl
CF ₃	OH	Cl	O	2-N-acetyl-8-methylguanine	H	O-acyl
CF ₃	OH	Cl	O	4-N-acetyl-8-methylcytosine	H	O-acyl
CF ₃	OH	Cl	O	6-N-acetyl-8-methyladenine	H	O-acyl
CF ₃	OH	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-acyl
CF ₃	OH	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-acyl
CF ₃	OH	Cl	O	6-N-acetyl-2-amino-8-methyladenine	H	O-acyl
CF ₃	OH	Cl	O	2-N-acetylamino-8-methyladenine	H	O-acyl
CF ₃	OH	Cl	O	2-N-acetylamino-8-methylhypoxanthine	H	O-acyl
CF ₃	OH	H	O	6-Methylthymine	F	O-amino acid
CF ₃	OH	H	O	6-Methyluracil	F	O-amino acid
CF ₃	OH	H	O	8-Methylguanine	F	O-amino acid
CF ₃	OH	H	O	6-Methylcytosine	F	O-amino acid
CF ₃	OH	H	O	8-Methyladenine	F	O-amino acid
CF ₃	OH	H	O	8-Methylhypoxanthine	F	O-amino acid
CF ₃	OH	H	O	5-Fluoro-6-Methyluracil	F	O-amino acid
CF ₃	OH	H	O	5-Fluoro-6-Methylcytosine	F	O-amino acid
CF ₃	OH	H	O	2-Fluoro-8-methyladenine	F	O-amino acid
CF ₃	OH	H	O	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CF ₃	OH	H	O	2-Amino-8-methyladenine	F	O-amino acid
CF ₃	OH	H	O	2-Amino-8-methylhypoxanthine	F	O-amino acid
CF ₃	OH	H	O	2-N-acetyl-8-methylguanine	F	O-amino acid
CF ₃	OH	H	O	4-N-acetyl-8-methylcytosine	F	O-amino acid
CF ₃	OH	H	O	6-N-acetyl-8-methyladenine	F	O-amino acid
CF ₃	OH	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CF ₃	OH	H	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CF ₃	OH	H	O	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CF ₃	OH	H	O	2-N-acetylamino-8-methyladenine	F	O-amino acid
CF ₃	OH	H	O	2-N-acetylamino-8-methylhypoxanthine	F	O-amino acid
CF ₃	OH	H	O	6-Methylthymine	F	O-acyl
CF ₃	OH	H	O	6-Methyluracil	F	O-acyl
CF ₃	OH	H	O	8-Methylguanine	F	O-acyl
CF ₃	OH	H	O	6-Methylcytosine	F	O-acyl
CF ₃	OH	H	O	8-Methyladenine	F	O-acyl
CF ₃	OH	H	O	8-Methylhypoxanthine	F	O-acyl
CF ₃	OH	H	O	5-Fluoro-6-Methyluracil	F	O-acyl
CF ₃	OH	H	O	5-Fluoro-6-Methylcytosine	F	O-acyl
CF ₃	OH	H	O	2-Fluoro-8-methyladenine	F	O-acyl
CF ₃	OH	H	O	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CF ₃	OH	H	O	2-Amino-8-methyladenine	F	O-acyl
CF ₃	OH	H	O	2-Amino-8-methylhypoxanthine	F	O-acyl
CF ₃	OH	H	O	2-N-acetyl-8-methylguanine	F	O-acyl
CF ₃	OH	H	O	4-N-acetyl-8-methylcytosine	F	O-acyl
CF ₃	OH	H	O	6-N-acetyl-8-methyladenine	F	O-acyl
CF ₃	OH	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CF ₃	OH	H	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CF ₃	OH	H	O	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CF ₃	OH	H	O	2-N-acetylamino-8-methyladenine	F	O-acyl
CF ₃	OH	H	O	2-N-acetylamino-8-methylhypoxanthine	F	O-acyl
CF ₃	OH	H	O	6-Methylthymine	Br	O-amino acid
CF ₃	OH	H	O	6-Methyluracil	Br	O-amino acid
CF ₃	OH	H	O	8-Methylguanine	Br	O-amino acid
CF ₃	OH	H	O	6-Methylcytosine	Br	O-amino acid
CF ₃	OH	H	O	8-Methyladenine	Br	O-amino acid

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	OH	H	O	8-Methylhypoxanthine	Br	O-amino acid
CF ₃	OH	H	O	5-Fluoro-6-Methyluracil	Br	O-amino acid
CF ₃	OH	H	O	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CF ₃	OH	H	O	2-Fluoro-8-methyladenine	Br	O-amino acid
CF ₃	OH	H	O	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CF ₃	OH	H	O	2-Amino-8-methyladenine	Br	O-amino acid
CF ₃	OH	H	O	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CF ₃	OH	H	O	2-N-acetyl-8-methylguanine	Br	O-amino acid
CF ₃	OH	H	O	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CF ₃	OH	H	O	6-N-acetyl-8-methyladenine	Br	O-amino acid
CF ₃	OH	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CF ₃	OH	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CF ₃	OH	H	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CF ₃	OH	H	O	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CF ₃	OH	H	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-amino acid
CF ₃	OH	H	O	6-Methylthymine	Br	O-acyl
CF ₃	OH	H	O	6-Methyluracil	Br	O-acyl
CF ₃	OH	H	O	8-Methylguanine	Br	O-acyl
CF ₃	OH	H	O	6-Methylcytosine	Br	O-acyl
CF ₃	OH	H	O	8-Methyladenine	Br	O-acyl
CF ₃	OH	H	O	8-Methylhypoxanthine	Br	O-acyl
CF ₃	OH	H	O	5-Fluoro-6-Methyluracil	Br	O-acyl
CF ₃	OH	H	O	5-Fluoro-6-Methylcytosine	Br	O-acyl
CF ₃	OH	H	O	2-Fluoro-8-methyladenine	Br	O-acyl
CF ₃	OH	H	O	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CF ₃	OH	H	O	2-Amino-8-methyladenine	Br	O-acyl
CF ₃	OH	H	O	2-Amino-8-methylhypoxanthine	Br	O-acyl
CF ₃	OH	H	O	2-N-acetyl-8-methylguanine	Br	O-acyl
CF ₃	OH	H	O	4-N-acetyl-8-methylcytosine	Br	O-acyl
CF ₃	OH	H	O	6-N-acetyl-8-methyladenine	Br	O-acyl
CF ₃	OH	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CF ₃	OH	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CF ₃	OH	H	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CF ₃	OH	H	O	2-N-acetylamino-8-methyladenine	Br	O-acyl
CF ₃	OH	H	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-acyl
CF ₃	OH	H	O	6-Methylthymine	Cl	O-amino acid
CF ₃	OH	H	O	6-Methyluracil	Cl	O-amino acid
CF ₃	OH	H	O	8-Methylguanine	Cl	O-amino acid
CF ₃	OH	H	O	6-Methylcytosine	Cl	O-amino acid
CF ₃	OH	H	O	8-Methyladenine	Cl	O-amino acid
CF ₃	OH	H	O	8-Methylhypoxanthine	Cl	O-amino acid
CF ₃	OH	H	O	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CF ₃	OH	H	O	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CF ₃	OH	H	O	2-Fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	OH	H	O	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	OH	H	O	2-Amino-8-methyladenine	Cl	O-amino acid
CF ₃	OH	H	O	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	OH	H	O	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CF ₃	OH	H	O	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CF ₃	OH	H	O	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CF ₃	OH	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CF ₃	OH	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	OH	H	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CF ₃	OH	H	O	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CF ₃	OH	H	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	OH	H	O	6-Methylthymine	Cl	O-acyl
CF ₃	OH	H	O	6-Methyluracil	Cl	O-acyl
CF ₃	OH	H	O	8-Methylguanine	Cl	O-acyl
CF ₃	OH	H	O	6-Methylcytosine	Cl	O-acyl
CF ₃	OH	H	O	8-Methyladenine	Cl	O-acyl
CF ₃	OH	H	O	8-Methylhypoxanthine	Cl	O-acyl
CF ₃	OH	H	O	5-Fluoro-6-Methyluracil	Cl	O-acyl
CF ₃	OH	H	O	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CF ₃	OH	H	O	2-Fluoro-8-methyladenine	Cl	O-acyl
CF ₃	OH	H	O	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CF ₃	OH	H	O	2-Amino-8-methyladenine	Cl	O-acyl
CF ₃	OH	H	O	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CF ₃	OH	H	O	2-N-acetyl-8-methylguanine	Cl	O-acyl
CF ₃	OH	H	O	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CF ₃	OH	H	O	6-N-acetyl-8-methyladenine	Cl	O-acyl
CF ₃	OH	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CF ₃	OH	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CF ₃	OH	H	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CF ₃	OH	H	O	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CF ₃	OH	H	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-acyl

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	OH	H	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-acyl
CF ₃	OH	H	O	6-Methylthymine	H	O-amino acid
CF ₃	OH	H	O	6-Methyluracil	H	O-amino acid
CF ₃	OH	H	O	8-Methylguanine	H	O-amino acid
CF ₃	OH	H	O	6-Methylcytosine	H	O-amino acid
CF ₃	OH	H	O	8-Methyladenine	H	O-amino acid
CF ₃	OH	H	O	8-Methylhypoxanthine	H	O-amino acid
CF ₃	OH	H	O	5-Fluoro-6-Methyluracil	H	O-amino acid
CF ₃	OH	H	O	5-Fluoro-6-Methylcytosine	H	O-amino acid
CF ₃	OH	H	O	2-Fluoro-8-methyladenine	H	O-amino acid
CF ₃	OH	H	O	2-Fluoro-8-methylhypoxanthine	H	O-amino acid
CF ₃	OH	H	O	2-Amino-8-methyladenine	H	O-amino acid
CF ₃	OH	H	O	2-Amino-8-methylhypoxanthine	H	O-amino acid
CF ₃	OH	H	O	2-N-acetyl-8-methylguanine	H	O-amino acid
CF ₃	OH	H	O	4-N-acetyl-8-methylcytosine	H	O-amino acid
CF ₃	OH	H	O	6-N-acetyl-8-methyladenine	H	O-amino acid
CF ₃	OH	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-amino acid
CF ₃	OH	H	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-amino acid
CF ₃	OH	H	O	6-N-acetyl-2-amino-8-methyladenine	H	O-amino acid
CF ₃	OH	H	O	2-N-acetylamino-8-methyladenine	H	O-amino acid
CF ₃	OH	H	O	2-N-acetylamino-8-methylhypoxanthine	H	O-amino acid
CF ₃	OH	H	O	6-Methylthymine	H	O-acyl
CF ₃	OH	H	O	6-Methyluracil	H	O-acyl
CF ₃	OH	H	O	8-Methylguanine	H	O-acyl
CF ₃	OH	H	O	6-Methylcytosine	H	O-acyl
CF ₃	OH	H	O	8-Methyladenine	H	O-acyl
CF ₃	OH	H	O	8-Methylhypoxanthine	H	O-acyl
CF ₃	OH	H	O	5-Fluoro-6-Methyluracil	H	O-acyl
CF ₃	OH	H	O	5-Fluoro-6-Methylcytosine	H	O-acyl
CF ₃	OH	H	O	2-Fluoro-8-methyladenine	H	O-acyl
CF ₃	OH	H	O	2-Fluoro-8-methylhypoxanthine	H	O-acyl
CF ₃	OH	H	O	2-Amino-8-methyladenine	H	O-acyl
CF ₃	OH	H	O	2-Amino-8-methylhypoxanthine	H	O-acyl
CF ₃	OH	H	O	2-N-acetyl-8-methylguanine	H	O-acyl
CF ₃	OH	H	O	4-N-acetyl-8-methylcytosine	H	O-acyl
CF ₃	OH	H	O	6-N-acetyl-8-methyladenine	H	O-acyl
CF ₃	OH	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-acyl
CF ₃	OH	H	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-acyl
CF ₃	OH	H	O	6-N-acetyl-2-amino-8-methyladenine	H	O-acyl
CF ₃	OH	H	O	2-N-acetylamino-8-methyladenine	H	O-acyl
CF ₃	OH	H	O	2-N-acetylamino-8-methylhypoxanthine	H	O-acyl
CF ₃	H	F	O	6-Methylthymine	F	O-amino acid
CF ₃	H	F	O	6-Methyluracil	F	O-amino acid
CF ₃	H	F	O	8-Methylguanine	F	O-amino acid
CF ₃	H	F	O	6-Methylcytosine	F	O-amino acid
CF ₃	H	F	O	8-Methyladenine	F	O-amino acid
CF ₃	H	F	O	8-Methylhypoxanthine	F	O-amino acid
CF ₃	H	F	O	5-Fluoro-6-Methyluracil	F	O-amino acid
CF ₃	H	F	O	5-Fluoro-6-Methylcytosine	F	O-amino acid
CF ₃	H	F	O	2-Fluoro-8-methyladenine	F	O-amino acid
CF ₃	H	F	O	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CF ₃	H	F	O	2-Amino-8-methyladenine	F	O-amino acid
CF ₃	H	F	O	2-Amino-8-methylhypoxanthine	F	O-amino acid
CF ₃	H	F	O	2-N-acetyl-8-methylguanine	F	O-amino acid
CF ₃	H	F	O	4-N-acetyl-8-methylcytosine	F	O-amino acid
CF ₃	H	F	O	6-N-acetyl-8-methyladenine	F	O-amino acid
CF ₃	H	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CF ₃	H	F	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CF ₃	H	F	O	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CF ₃	H	F	O	2-N-acetylamino-8-methyladenine	F	O-amino acid
CF ₃	H	F	O	2-N-acetylamino-8-methylhypoxanthine	F	O-amino acid
CF ₃	H	F	O	6-Methylthymine	F	O-acyl
CF ₃	H	F	O	6-Methyluracil	F	O-acyl
CF ₃	H	F	O	8-Methylguanine	F	O-acyl
CF ₃	H	F	O	6-Methylcytosine	F	O-acyl
CF ₃	H	F	O	8-Methyladenine	F	O-acyl
CF ₃	H	F	O	8-Methylhypoxanthine	F	O-acyl
CF ₃	H	F	O	5-Fluoro-6-Methyluracil	F	O-acyl
CF ₃	H	F	O	5-Fluoro-6-Methylcytosine	F	O-acyl
CF ₃	H	F	O	2-Fluoro-8-methyladenine	F	O-acyl
CF ₃	H	F	O	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CF ₃	H	F	O	2-Amino-8-methyladenine	F	O-acyl
CF ₃	H	F	O	2-Amino-8-methylhypoxanthine	F	O-acyl

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	H	F	O	2-N-acetyl-8-methylguanine	F	O-acyl
CF ₃	H	F	O	4-N-acetyl-8-methylcytosine	F	O-acyl
CF ₃	H	F	O	6-N-acetyl-8-methyladenine	F	O-acyl
CF ₃	H	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CF ₃	H	F	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CF ₃	H	F	O	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CF ₃	H	F	O	2-N-acetylamino-8-methyladenine	F	O-acyl
CF ₃	H	F	O	2-N-acetylamino-8-methylhypoxanthine	F	O-acyl
CF ₃	H	F	O	6-Methylthymine	Br	O-amino acid
CF ₃	H	F	O	6-Methyluracil	Br	O-amino acid
CF ₃	H	F	O	8-Methylguanine	Br	O-amino acid
CF ₃	H	F	O	6-Methylcytosine	Br	O-amino acid
CF ₃	H	F	O	8-Methyladenine	Br	O-amino acid
CF ₃	H	F	O	8-Methylhypoxanthine	Br	O-amino acid
CF ₃	H	F	O	5-Fluoro-6-Methyluracil	Br	O-amino acid
CF ₃	H	F	O	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CF ₃	H	F	O	2-Fluoro-8-methyladenine	Br	O-amino acid
CF ₃	H	F	O	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CF ₃	H	F	O	2-Amino-8-methyladenine	Br	O-amino acid
CF ₃	H	F	O	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CF ₃	H	F	O	2-N-acetyl-8-methylguanine	Br	O-amino acid
CF ₃	H	F	O	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CF ₃	H	F	O	6-N-acetyl-8-methyladenine	Br	O-amino acid
CF ₃	H	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CF ₃	H	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CF ₃	H	F	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CF ₃	H	F	O	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CF ₃	H	F	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-amino acid
CF ₃	H	F	O	6-Methylthymine	Br	O-acyl
CF ₃	H	F	O	6-Methyluracil	Br	O-acyl
CF ₃	H	F	O	8-Methylguanine	Br	O-acyl
CF ₃	H	F	O	6-Methylcytosine	Br	O-acyl
CF ₃	H	F	O	8-Methyladenine	Br	O-acyl
CF ₃	H	F	O	8-Methylhypoxanthine	Br	O-acyl
CF ₃	H	F	O	5-Fluoro-6-Methyluracil	Br	O-acyl
CF ₃	H	F	O	5-Fluoro-6-Methylcytosine	Br	O-acyl
CF ₃	H	F	O	2-Fluoro-8-methyladenine	Br	O-acyl
CF ₃	H	F	O	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CF ₃	H	F	O	2-Amino-8-methyladenine	Br	O-acyl
CF ₃	H	F	O	2-Amino-8-methylhypoxanthine	Br	O-acyl
CF ₃	H	F	O	2-N-acetyl-8-methylguanine	Br	O-acyl
CF ₃	H	F	O	4-N-acetyl-8-methylcytosine	Br	O-acyl
CF ₃	H	F	O	6-N-acetyl-8-methyladenine	Br	O-acyl
CF ₃	H	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CF ₃	H	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CF ₃	H	F	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CF ₃	H	F	O	2-N-acetylamino-8-methyladenine	Br	O-acyl
CF ₃	H	F	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-acyl
CF ₃	H	F	O	6-Methylthymine	Cl	O-amino acid
CF ₃	H	F	O	6-Methyluracil	Cl	O-amino acid
CF ₃	H	F	O	8-Methylguanine	Cl	O-amino acid
CF ₃	H	F	O	6-Methylcytosine	Cl	O-amino acid
CF ₃	H	F	O	8-Methyladenine	Cl	O-amino acid
CF ₃	H	F	O	8-Methylhypoxanthine	Cl	O-amino acid
CF ₃	H	F	O	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CF ₃	H	F	O	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CF ₃	H	F	O	2-Fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	H	F	O	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	H	F	O	2-Amino-8-methyladenine	Cl	O-amino acid
CF ₃	H	F	O	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	H	F	O	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CF ₃	H	F	O	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CF ₃	H	F	O	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CF ₃	H	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CF ₃	H	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	H	F	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CF ₃	H	F	O	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CF ₃	H	F	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	H	F	O	6-Methylthymine	Cl	O-acyl
CF ₃	H	F	O	6-Methyluracil	Cl	O-acyl
CF ₃	H	F	O	8-Methylguanine	Cl	O-acyl
CF ₃	H	F	O	6-Methylcytosine	Cl	O-acyl
CF ₃	H	F	O	8-Methyladenine	Cl	O-acyl

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	H	F	O	8-Methylhypoxanthine	Cl	O-acyl
CF ₃	H	F	O	5-Fluoro-6-Methyluracil	Cl	O-acyl
CF ₃	H	F	O	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CF ₃	H	F	O	2-Fluoro-8-methyladenine	Cl	O-acyl
CF ₃	H	F	O	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CF ₃	H	F	O	2-Amino-8-methyladenine	Cl	O-acyl
CF ₃	H	F	O	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CF ₃	H	F	O	2-N-acetyl-8-methylguanine	Cl	O-acyl
CF ₃	H	F	O	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CF ₃	H	F	O	6-N-acetyl-8-methyladenine	Cl	O-acyl
CF ₃	H	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CF ₃	H	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CF ₃	H	F	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CF ₃	H	F	O	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CF ₃	H	F	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-acyl
CF ₃	H	F	O	6-Methylthymine	H	O-amino acid
CF ₃	H	F	O	6-Methyluracil	H	O-amino acid
CF ₃	H	F	O	8-Methylguanine	H	O-amino acid
CF ₃	H	F	O	6-Methylcytosine	H	O-amino acid
CF ₃	H	F	O	8-Methyladenine	H	O-amino acid
CF ₃	H	F	O	8-Methylhypoxanthine	H	O-amino acid
CF ₃	H	F	O	5-Fluoro-6-Methyluracil	H	O-amino acid
CF ₃	H	F	O	5-Fluoro-6-Methylcytosine	H	O-amino acid
CF ₃	H	F	O	2-Fluoro-8-methyladenine	H	O-amino acid
CF ₃	H	F	O	2-Fluoro-8-methylhypoxanthine	H	O-amino acid
CF ₃	H	F	O	2-Amino-8-methyladenine	H	O-amino acid
CF ₃	H	F	O	2-Amino-8-methylhypoxanthine	H	O-amino acid
CF ₃	H	F	O	2-N-acetyl-8-methylguanine	H	O-amino acid
CF ₃	H	F	O	4-N-acetyl-8-methylcytosine	H	O-amino acid
CF ₃	H	F	O	6-N-acetyl-8-methyladenine	H	O-amino acid
CF ₃	H	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-amino acid
CF ₃	H	F	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-amino acid
CF ₃	H	F	O	6-N-acetyl-2-amino-8-methyladenine	H	O-amino acid
CF ₃	H	F	O	2-N-acetylamino-8-methyladenine	H	O-amino acid
CF ₃	H	F	O	2-N-acetylamino-8-methylhypoxanthine	H	O-amino acid
CF ₃	H	F	O	6-Methylthymine	H	O-acyl
CF ₃	H	F	O	6-Methyluracil	H	O-acyl
CF ₃	H	F	O	8-Methylguanine	H	O-acyl
CF ₃	H	F	O	6-Methylcytosine	H	O-acyl
CF ₃	H	F	O	8-Methyladenine	H	O-acyl
CF ₃	H	F	O	8-Methylhypoxanthine	H	O-acyl
CF ₃	H	F	O	5-Fluoro-6-Methyluracil	H	O-acyl
CF ₃	H	F	O	5-Fluoro-6-Methylcytosine	H	O-acyl
CF ₃	H	F	O	2-Fluoro-8-methyladenine	H	O-acyl
CF ₃	H	F	O	2-Fluoro-8-methylhypoxanthine	H	O-acyl
CF ₃	H	F	O	2-Amino-8-methyladenine	H	O-acyl
CF ₃	H	F	O	2-Amino-8-methylhypoxanthine	H	O-acyl
CF ₃	H	F	O	2-N-acetyl-8-methylguanine	H	O-acyl
CF ₃	H	F	O	4-N-acetyl-8-methylcytosine	H	O-acyl
CF ₃	H	F	O	6-N-acetyl-8-methyladenine	H	O-acyl
CF ₃	H	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-acyl
CF ₃	H	F	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-acyl
CF ₃	H	F	O	6-N-acetyl-2-amino-8-methyladenine	H	O-acyl
CF ₃	H	F	O	2-N-acetylamino-8-methyladenine	H	O-acyl
CF ₃	H	F	O	2-N-acetylamino-8-methylhypoxanthine	H	O-acyl
CF ₃	H	Br	O	6-Methylthymine	F	O-amino acid
CF ₃	H	Br	O	6-Methyluracil	F	O-amino acid
CF ₃	H	Br	O	8-Methylguanine	F	O-amino acid
CF ₃	H	Br	O	6-Methylcytosine	F	O-amino acid
CF ₃	H	Br	O	8-Methyladenine	F	O-amino acid
CF ₃	H	Br	O	8-Methylhypoxanthine	F	O-amino acid
CF ₃	H	Br	O	5-Fluoro-6-Methyluracil	F	O-amino acid
CF ₃	H	Br	O	5-Fluoro-6-Methylcytosine	F	O-amino acid
CF ₃	H	Br	O	2-Fluoro-8-methyladenine	F	O-amino acid
CF ₃	H	Br	O	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CF ₃	H	Br	O	2-Amino-8-methyladenine	F	O-amino acid
CF ₃	H	Br	O	2-Amino-8-methylhypoxanthine	F	O-amino acid
CF ₃	H	Br	O	2-N-acetyl-8-methylguanine	F	O-amino acid
CF ₃	H	Br	O	4-N-acetyl-8-methylcytosine	F	O-amino acid
CF ₃	H	Br	O	6-N-acetyl-8-methyladenine	F	O-amino acid
CF ₃	H	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CF ₃	H	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CF ₃	H	Br	O	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CF ₃	H	Br	O	2-N-acetylamino-8-methyladenine	F	O-amino acid

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	H	Br	O	2-N-acetylamino-8-methylhypoxanthine	F	O-amino acid
CF ₃	H	Br	O	6-Methylthymine	F	O-acyl
CF ₃	H	Br	O	6-Methyluracil	F	O-acyl
CF ₃	H	Br	O	8-Methylguanine	F	O-acyl
CF ₃	H	Br	O	6-Methylcytosine	F	O-acyl
CF ₃	H	Br	O	8-Methyladenine	F	O-acyl
CF ₃	H	Br	O	8-Methylhypoxanthine	F	O-acyl
CF ₃	H	Br	O	5-Fluoro-6-Methyluracil	F	O-acyl
CF ₃	H	Br	O	5-Fluoro-6-Methylcytosine	F	O-acyl
CF ₃	H	Br	O	2-Fluoro-8-methyladenine	F	O-acyl
CF ₃	H	Br	O	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CF ₃	H	Br	O	2-Amino-8-methyladenine	F	O-acyl
CF ₃	H	Br	O	2-Amino-8-methylhypoxanthine	F	O-acyl
CF ₃	H	Br	O	2-N-acetyl-8-methylguanine	F	O-acyl
CF ₃	H	Br	O	4-N-acetyl-8-methylcytosine	F	O-acyl
CF ₃	H	Br	O	6-N-acetyl-8-methyladenine	F	O-acyl
CF ₃	H	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CF ₃	H	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CF ₃	H	Br	O	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CF ₃	H	Br	O	2-N-acetylamino-8-methyladenine	F	O-acyl
CF ₃	H	Br	O	2-N-acetylamino-8-methylhypoxanthine	F	O-acyl
CF ₃	H	Br	O	6-Methylthymine	Br	O-amino acid
CF ₃	H	Br	O	6-Methyluracil	Br	O-amino acid
CF ₃	H	Br	O	8-Methylguanine	Br	O-amino acid
CF ₃	H	Br	O	6-Methylcytosine	Br	O-amino acid
CF ₃	H	Br	O	8-Methyladenine	Br	O-amino acid
CF ₃	H	Br	O	8-Methylhypoxanthine	Br	O-amino acid
CF ₃	H	Br	O	5-Fluoro-6-Methyluracil	Br	O-amino acid
CF ₃	H	Br	O	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CF ₃	H	Br	O	2-Fluoro-8-methyladenine	Br	O-amino acid
CF ₃	H	Br	O	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CF ₃	H	Br	O	2-Amino-8-methyladenine	Br	O-amino acid
CF ₃	H	Br	O	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CF ₃	H	Br	O	2-N-acetyl-8-methylguanine	Br	O-amino acid
CF ₃	H	Br	O	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CF ₃	H	Br	O	6-N-acetyl-8-methyladenine	Br	O-amino acid
CF ₃	H	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CF ₃	H	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CF ₃	H	Br	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CF ₃	H	Br	O	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CF ₃	H	Br	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-amino acid
CF ₃	H	Br	O	6-Methylthymine	Br	O-acyl
CF ₃	H	Br	O	6-Methyluracil	Br	O-acyl
CF ₃	H	Br	O	8-Methylguanine	Br	O-acyl
CF ₃	H	Br	O	6-Methylcytosine	Br	O-acyl
CF ₃	H	Br	O	8-Methyladenine	Br	O-acyl
CF ₃	H	Br	O	8-Methylhypoxanthine	Br	O-acyl
CF ₃	H	Br	O	5-Fluoro-6-Methyluracil	Br	O-acyl
CF ₃	H	Br	O	5-Fluoro-6-Methylcytosine	Br	O-acyl
CF ₃	H	Br	O	2-Fluoro-8-methyladenine	Br	O-acyl
CF ₃	H	Br	O	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CF ₃	H	Br	O	2-Amino-8-methyladenine	Br	O-acyl
CF ₃	H	Br	O	2-Amino-8-methylhypoxanthine	Br	O-acyl
CF ₃	H	Br	O	2-N-acetyl-8-methylguanine	Br	O-acyl
CF ₃	H	Br	O	4-N-acetyl-8-methylcytosine	Br	O-acyl
CF ₃	H	Br	O	6-N-acetyl-8-methyladenine	Br	O-acyl
CF ₃	H	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CF ₃	H	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CF ₃	H	Br	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CF ₃	H	Br	O	2-N-acetylamino-8-methyladenine	Br	O-acyl
CF ₃	H	Br	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-acyl
CF ₃	H	Br	O	6-Methylthymine	Cl	O-amino acid
CF ₃	H	Br	O	6-Methyluracil	Cl	O-amino acid
CF ₃	H	Br	O	8-Methylguanine	Cl	O-amino acid
CF ₃	H	Br	O	6-Methylcytosine	Cl	O-amino acid
CF ₃	H	Br	O	8-Methyladenine	Cl	O-amino acid
CF ₃	H	Br	O	8-Methylhypoxanthine	Cl	O-amino acid
CF ₃	H	Br	O	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CF ₃	H	Br	O	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CF ₃	H	Br	O	2-Fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	H	Br	O	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	H	Br	O	2-Amino-8-methyladenine	Cl	O-amino acid
CF ₃	H	Br	O	2-Amino-8-methylhypoxanthine	Cl	O-amino acid

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	H	Br	O	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CF ₃	H	Br	O	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CF ₃	H	Br	O	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CF ₃	H	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CF ₃	H	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	H	Br	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CF ₃	H	Br	O	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CF ₃	H	Br	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	H	Br	O	6-Methylthymine	Cl	O-acyl
CF ₃	H	Br	O	6-Methyluracil	Cl	O-acyl
CF ₃	H	Br	O	8-Methylguanine	Cl	O-acyl
CF ₃	H	Br	O	6-Methylcytosine	Cl	O-acyl
CF ₃	H	Br	O	8-Methyladenine	Cl	O-acyl
CF ₃	H	Br	O	8-Methylhypoxanthine	Cl	O-acyl
CF ₃	H	Br	O	5-Fluoro-6-Methyluracil	Cl	O-acyl
CF ₃	H	Br	O	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CF ₃	H	Br	O	2-Fluoro-8-methyladenine	Cl	O-acyl
CF ₃	H	Br	O	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CF ₃	H	Br	O	2-Amino-8-methyladenine	Cl	O-acyl
CF ₃	H	Br	O	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CF ₃	H	Br	O	2-N-acetyl-8-methylguanine	Cl	O-acyl
CF ₃	H	Br	O	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CF ₃	H	Br	O	6-N-acetyl-8-methyladenine	Cl	O-acyl
CF ₃	H	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CF ₃	H	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CF ₃	H	Br	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CF ₃	H	Br	O	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CF ₃	H	Br	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-acyl
CF ₃	H	Br	O	6-Methylthymine	H	O-amino acid
CF ₃	H	Br	O	6-Methyluracil	H	O-amino acid
CF ₃	H	Br	O	8-Methylguanine	H	O-amino acid
CF ₃	H	Br	O	6-Methylcytosine	H	O-amino acid
CF ₃	H	Br	O	8-Methyladenine	H	O-amino acid
CF ₃	H	Br	O	8-Methylhypoxanthine	H	O-amino acid
CF ₃	H	Br	O	5-Fluoro-6-Methyluracil	H	O-amino acid
CF ₃	H	Br	O	5-Fluoro-6-Methylcytosine	H	O-amino acid
CF ₃	H	Br	O	2-Fluoro-8-methyladenine	H	O-amino acid
CF ₃	H	Br	O	2-Fluoro-8-methylhypoxanthine	H	O-amino acid
CF ₃	H	Br	O	2-Amino-8-methyladenine	H	O-amino acid
CF ₃	H	Br	O	2-Amino-8-methylhypoxanthine	H	O-amino acid
CF ₃	H	Br	O	2-N-acetyl-8-methylguanine	H	O-amino acid
CF ₃	H	Br	O	4-N-acetyl-8-methylcytosine	H	O-amino acid
CF ₃	H	Br	O	6-N-acetyl-8-methyladenine	H	O-amino acid
CF ₃	H	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-amino acid
CF ₃	H	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-amino acid
CF ₃	H	Br	O	6-N-acetyl-2-amino-8-methyladenine	H	O-amino acid
CF ₃	H	Br	O	2-N-acetylamino-8-methyladenine	H	O-amino acid
CF ₃	H	Br	O	2-N-acetylamino-8-methylhypoxanthine	H	O-amino acid
CF ₃	H	Br	O	6-Methylthymine	H	O-acyl
CF ₃	H	Br	O	6-Methyluracil	H	O-acyl
CF ₃	H	Br	O	8-Methylguanine	H	O-acyl
CF ₃	H	Br	O	6-Methylcytosine	H	O-acyl
CF ₃	H	Br	O	8-Methyladenine	H	O-acyl
CF ₃	H	Br	O	8-Methylhypoxanthine	H	O-acyl
CF ₃	H	Br	O	5-Fluoro-6-Methyluracil	H	O-acyl
CF ₃	H	Br	O	5-Fluoro-6-Methylcytosine	H	O-acyl
CF ₃	H	Br	O	2-Fluoro-8-methyladenine	H	O-acyl
CF ₃	H	Br	O	2-Fluoro-8-methylhypoxanthine	H	O-acyl
CF ₃	H	Br	O	2-Amino-8-methyladenine	H	O-acyl
CF ₃	H	Br	O	2-Amino-8-methylhypoxanthine	H	O-acyl
CF ₃	H	Br	O	2-N-acetyl-8-methylguanine	H	O-acyl
CF ₃	H	Br	O	4-N-acetyl-8-methylcytosine	H	O-acyl
CF ₃	H	Br	O	6-N-acetyl-8-methyladenine	H	O-acyl
CF ₃	H	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-acyl
CF ₃	H	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-acyl
CF ₃	H	Br	O	6-N-acetyl-2-amino-8-methyladenine	H	O-acyl
CF ₃	H	Br	O	2-N-acetylamino-8-methyladenine	H	O-acyl
CF ₃	H	Br	O	2-N-acetylamino-8-methylhypoxanthine	H	O-acyl
CF ₃	H	Cl	O	6-Methylthymine	F	O-amino acid
CF ₃	H	Cl	O	6-Methyluracil	F	O-amino acid
CF ₃	H	Cl	O	8-Methylguanine	F	O-amino acid
CF ₃	H	Cl	O	6-Methylcytosine	F	O-amino acid
CF ₃	H	Cl	O	8-Methyladenine	F	O-amino acid

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	H	Cl	O	8-Methylhypoxanthine	F	O-amino acid
CF ₃	H	Cl	O	5-Fluoro-6-Methyluracil	F	O-amino acid
CF ₃	H	Cl	O	5-Fluoro-6-Methylcytosine	F	O-amino acid
CF ₃	H	Cl	O	2-Fluoro-8-methyladenine	F	O-amino acid
CF ₃	H	Cl	O	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CF ₃	H	Cl	O	2-Amino-8-methyladenine	F	O-amino acid
CF ₃	H	Cl	O	2-Amino-8-methylhypoxanthine	F	O-amino acid
CF ₃	H	Cl	O	2-N-acetyl-8-methylguanine	F	O-amino acid
CF ₃	H	Cl	O	4-N-acetyl-8-methylcytosine	F	O-amino acid
CF ₃	H	Cl	O	6-N-acetyl-8-methyladenine	F	O-amino acid
CF ₃	H	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CF ₃	H	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CF ₃	H	Cl	O	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CF ₃	H	Cl	O	2-N-acetylamino-8-methyladenine	F	O-amino acid
CF ₃	H	Cl	O	2-N-acetylamino-8-methylhypoxanthine	F	O-amino acid
CF ₃	H	Cl	O	6-Methylthymine	F	O-acyl
CF ₃	H	Cl	O	6-Methyluracil	F	O-acyl
CF ₃	H	Cl	O	8-Methylguanine	F	O-acyl
CF ₃	H	Cl	O	6-Methylcytosine	F	O-acyl
CF ₃	H	Cl	O	8-Methyladenine	F	O-acyl
CF ₃	H	Cl	O	8-Methylhypoxanthine	F	O-acyl
CF ₃	H	Cl	O	5-Fluoro-6-Methyluracil	F	O-acyl
CF ₃	H	Cl	O	5-Fluoro-6-Methylcytosine	F	O-acyl
CF ₃	H	Cl	O	2-Fluoro-8-methyladenine	F	O-acyl
CF ₃	H	Cl	O	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CF ₃	H	Cl	O	2-Amino-8-methyladenine	F	O-acyl
CF ₃	H	Cl	O	2-Amino-8-methylhypoxanthine	F	O-acyl
CF ₃	H	Cl	O	2-N-acetyl-8-methylguanine	F	O-acyl
CF ₃	H	Cl	O	4-N-acetyl-8-methylcytosine	F	O-acyl
CF ₃	H	Cl	O	6-N-acetyl-8-methyladenine	F	O-acyl
CF ₃	H	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CF ₃	H	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CF ₃	H	Cl	O	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CF ₃	H	Cl	O	2-N-acetylamino-8-methyladenine	F	O-acyl
CF ₃	H	Cl	O	2-N-acetylamino-8-methylhypoxanthine	F	O-acyl
CF ₃	H	Cl	O	6-Methylthymine	Br	O-amino acid
CF ₃	H	Cl	O	6-Methyluracil	Br	O-amino acid
CF ₃	H	Cl	O	8-Methylguanine	Br	O-amino acid
CF ₃	H	Cl	O	6-Methylcytosine	Br	O-amino acid
CF ₃	H	Cl	O	8-Methyladenine	Br	O-amino acid
CF ₃	H	Cl	O	8-Methylhypoxanthine	Br	O-amino acid
CF ₃	H	Cl	O	5-Fluoro-6-Methyluracil	Br	O-amino acid
CF ₃	H	Cl	O	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CF ₃	H	Cl	O	2-Fluoro-8-methyladenine	Br	O-amino acid
CF ₃	H	Cl	O	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CF ₃	H	Cl	O	2-Amino-8-methyladenine	Br	O-amino acid
CF ₃	H	Cl	O	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CF ₃	H	Cl	O	2-N-acetyl-8-methylguanine	Br	O-amino acid
CF ₃	H	Cl	O	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CF ₃	H	Cl	O	6-N-acetyl-8-methyladenine	Br	O-amino acid
CF ₃	H	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CF ₃	H	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CF ₃	H	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CF ₃	H	Cl	O	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CF ₃	H	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-amino acid
CF ₃	H	Cl	O	6-Methylthymine	Br	O-acyl
CF ₃	H	Cl	O	6-Methyluracil	Br	O-acyl
CF ₃	H	Cl	O	8-Methylguanine	Br	O-acyl
CF ₃	H	Cl	O	6-Methylcytosine	Br	O-acyl
CF ₃	H	Cl	O	8-Methyladenine	Br	O-acyl
CF ₃	H	Cl	O	8-Methylhypoxanthine	Br	O-acyl
CF ₃	H	Cl	O	5-Fluoro-6-Methyluracil	Br	O-acyl
CF ₃	H	Cl	O	5-Fluoro-6-Methylcytosine	Br	O-acyl
CF ₃	H	Cl	O	2-Fluoro-8-methyladenine	Br	O-acyl
CF ₃	H	Cl	O	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CF ₃	H	Cl	O	2-Amino-8-methyladenine	Br	O-acyl
CF ₃	H	Cl	O	2-Amino-8-methylhypoxanthine	Br	O-acyl
CF ₃	H	Cl	O	2-N-acetyl-8-methylguanine	Br	O-acyl
CF ₃	H	Cl	O	4-N-acetyl-8-methylcytosine	Br	O-acyl
CF ₃	H	Cl	O	6-N-acetyl-8-methyladenine	Br	O-acyl
CF ₃	H	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CF ₃	H	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CF ₃	H	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CF ₃	H	Cl	O	2-N-acetylamino-8-methyladenine	Br	O-acyl

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	H	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-acyl
CF ₃	H	Cl	O	6-Methylthymine	Cl	O-amino acid
CF ₃	H	Cl	O	6-Methyluracil	Cl	O-amino acid
CF ₃	H	Cl	O	8-Methylguanine	Cl	O-amino acid
CF ₃	H	Cl	O	6-Methylcytosine	Cl	O-amino acid
CF ₃	H	Cl	O	8-Methyladenine	Cl	O-amino acid
CF ₃	H	Cl	O	8-Methylhypoxanthine	Cl	O-amino acid
CF ₃	H	Cl	O	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CF ₃	H	Cl	O	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CF ₃	H	Cl	O	2-Fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	H	Cl	O	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	H	Cl	O	2-Amino-8-methyladenine	Cl	O-amino acid
CF ₃	H	Cl	O	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	H	Cl	O	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CF ₃	H	Cl	O	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CF ₃	H	Cl	O	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CF ₃	H	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CF ₃	H	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	H	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CF ₃	H	Cl	O	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CF ₃	H	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	H	Cl	O	6-Methylthymine	Cl	O-acyl
CF ₃	H	Cl	O	6-Methyluracil	Cl	O-acyl
CF ₃	H	Cl	O	8-Methylguanine	Cl	O-acyl
CF ₃	H	Cl	O	6-Methylcytosine	Cl	O-acyl
CF ₃	H	Cl	O	8-Methyladenine	Cl	O-acyl
CF ₃	H	Cl	O	8-Methylhypoxanthine	Cl	O-acyl
CF ₃	H	Cl	O	5-Fluoro-6-Methyluracil	Cl	O-acyl
CF ₃	H	Cl	O	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CF ₃	H	Cl	O	2-Fluoro-8-methyladenine	Cl	O-acyl
CF ₃	H	Cl	O	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CF ₃	H	Cl	O	2-Amino-8-methyladenine	Cl	O-acyl
CF ₃	H	Cl	O	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CF ₃	H	Cl	O	2-N-acetyl-8-methylguanine	Cl	O-acyl
CF ₃	H	Cl	O	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CF ₃	H	Cl	O	6-N-acetyl-8-methyladenine	Cl	O-acyl
CF ₃	H	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CF ₃	H	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CF ₃	H	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CF ₃	H	Cl	O	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CF ₃	H	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-acyl
CF ₃	H	Cl	O	6-Methylthymine	H	O-amino acid
CF ₃	H	Cl	O	6-Methyluracil	H	O-amino acid
CF ₃	H	Cl	O	8-Methylguanine	H	O-amino acid
CF ₃	H	Cl	O	6-Methylcytosine	H	O-amino acid
CF ₃	H	Cl	O	8-Methyladenine	H	O-amino acid
CF ₃	H	Cl	O	8-Methylhypoxanthine	H	O-amino acid
CF ₃	H	Cl	O	5-Fluoro-6-Methyluracil	H	O-amino acid
CF ₃	H	Cl	O	5-Fluoro-6-Methylcytosine	H	O-amino acid
CF ₃	H	Cl	O	2-Fluoro-8-methyladenine	H	O-amino acid
CF ₃	H	Cl	O	2-Fluoro-8-methylhypoxanthine	H	O-amino acid
CF ₃	H	Cl	O	2-Amino-8-methyladenine	H	O-amino acid
CF ₃	H	Cl	O	2-Amino-8-methylhypoxanthine	H	O-amino acid
CF ₃	H	Cl	O	2-N-acetyl-8-methylguanine	H	O-amino acid
CF ₃	H	Cl	O	4-N-acetyl-8-methylcytosine	H	O-amino acid
CF ₃	H	Cl	O	6-N-acetyl-8-methyladenine	H	O-amino acid
CF ₃	H	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-amino acid
CF ₃	H	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-amino acid
CF ₃	H	Cl	O	6-N-acetyl-2-amino-8-methyladenine	H	O-amino acid
CF ₃	H	Cl	O	2-N-acetylamino-8-methyladenine	H	O-amino acid
CF ₃	H	Cl	O	2-N-acetylamino-8-methylhypoxanthine	H	O-amino acid
CF ₃	H	Cl	O	6-Methylthymine	H	O-acyl
CF ₃	H	Cl	O	6-Methyluracil	H	O-acyl
CF ₃	H	Cl	O	8-Methylguanine	H	O-acyl
CF ₃	H	Cl	O	6-Methylcytosine	H	O-acyl
CF ₃	H	Cl	O	8-Methyladenine	H	O-acyl
CF ₃	H	Cl	O	8-Methylhypoxanthine	H	O-acyl
CF ₃	H	Cl	O	5-Fluoro-6-Methyluracil	H	O-acyl
CF ₃	H	Cl	O	5-Fluoro-6-Methylcytosine	H	O-acyl
CF ₃	H	Cl	O	2-Fluoro-8-methyladenine	H	O-acyl
CF ₃	H	Cl	O	2-Fluoro-8-methylhypoxanthine	H	O-acyl
CF ₃	H	Cl	O	2-Amino-8-methyladenine	H	O-acyl
CF ₃	H	Cl	O	2-Amino-8-methylhypoxanthine	H	O-acyl

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	H	Cl	O	2-N-acetyl-8-methylguanine	H	O-acyl
CF ₃	H	Cl	O	4-N-acetyl-8-methylcytosine	H	O-acyl
CF ₃	H	Cl	O	6-N-acetyl-8-methyladenine	H	O-acyl
CF ₃	H	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-acyl
CF ₃	H	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-acyl
CF ₃	H	Cl	O	6-N-acetyl-2-amino-8-methyladenine	H	O-acyl
CF ₃	H	Cl	O	2-N-acetylamino-8-methyladenine	H	O-acyl
CF ₃	H	Cl	O	2-N-acetylamino-8-methylhypoxanthine	H	O-acyl
CF ₃	H	H	O	6-Methylthymine	F	O-amino acid
CF ₃	H	H	O	6-Methyluracil	F	O-amino acid
CF ₃	H	H	O	8-Methylguanine	F	O-amino acid
CF ₃	H	H	O	6-Methylcytosine	F	O-amino acid
CF ₃	H	H	O	8-Methyladenine	F	O-amino acid
CF ₃	H	H	O	8-Methylhypoxanthine	F	O-amino acid
CF ₃	H	H	O	5-Fluoro-6-Methyluracil	F	O-amino acid
CF ₃	H	H	O	5-Fluoro-6-Methylcytosine	F	O-amino acid
CF ₃	H	H	O	2-Fluoro-8-methyladenine	F	O-amino acid
CF ₃	H	H	O	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CF ₃	H	H	O	2-Amino-8-methyladenine	F	O-amino acid
CF ₃	H	H	O	2-Amino-8-methylhypoxanthine	F	O-amino acid
CF ₃	H	H	O	2-N-acetyl-8-methylguanine	F	O-amino acid
CF ₃	H	H	O	4-N-acetyl-8-methylcytosine	F	O-amino acid
CF ₃	H	H	O	6-N-acetyl-8-methyladenine	F	O-amino acid
CF ₃	H	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CF ₃	H	H	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CF ₃	H	H	O	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CF ₃	H	H	O	2-N-acetylamino-8-methyladenine	F	O-amino acid
CF ₃	H	H	O	2-N-acetylamino-8-methylhypoxanthine	F	O-amino acid
CF ₃	H	H	O	6-Methylthymine	F	O-acyl
CF ₃	H	H	O	6-Methyluracil	F	O-acyl
CF ₃	H	H	O	8-Methylguanine	F	O-acyl
CF ₃	H	H	O	6-Methylcytosine	F	O-acyl
CF ₃	H	H	O	8-Methyladenine	F	O-acyl
CF ₃	H	H	O	8-Methylhypoxanthine	F	O-acyl
CF ₃	H	H	O	5-Fluoro-6-Methyluracil	F	O-acyl
CF ₃	H	H	O	5-Fluoro-6-Methylcytosine	F	O-acyl
CF ₃	H	H	O	2-Fluoro-8-methyladenine	F	O-acyl
CF ₃	H	H	O	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CF ₃	H	H	O	2-Amino-8-methyladenine	F	O-acyl
CF ₃	H	H	O	2-Amino-8-methylhypoxanthine	F	O-acyl
CF ₃	H	H	O	2-N-acetyl-8-methylguanine	F	O-acyl
CF ₃	H	H	O	4-N-acetyl-8-methylcytosine	F	O-acyl
CF ₃	H	H	O	6-N-acetyl-8-methyladenine	F	O-acyl
CF ₃	H	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CF ₃	H	H	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CF ₃	H	H	O	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CF ₃	H	H	O	2-N-acetylamino-8-methyladenine	F	O-acyl
CF ₃	H	H	O	2-N-acetylamino-8-methylhypoxanthine	F	O-acyl
CF ₃	H	H	O	6-Methylthymine	Br	O-amino acid
CF ₃	H	H	O	6-Methyluracil	Br	O-amino acid
CF ₃	H	H	O	8-Methylguanine	Br	O-amino acid
CF ₃	H	H	O	6-Methylcytosine	Br	O-amino acid
CF ₃	H	H	O	8-Methyladenine	Br	O-amino acid
CF ₃	H	H	O	8-Methylhypoxanthine	Br	O-amino acid
CF ₃	H	H	O	5-Fluoro-6-Methyluracil	Br	O-amino acid
CF ₃	H	H	O	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CF ₃	H	H	O	2-Fluoro-8-methyladenine	Br	O-amino acid
CF ₃	H	H	O	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CF ₃	H	H	O	2-Amino-8-methyladenine	Br	O-amino acid
CF ₃	H	H	O	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CF ₃	H	H	O	2-N-acetyl-8-methylguanine	Br	O-amino acid
CF ₃	H	H	O	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CF ₃	H	H	O	6-N-acetyl-8-methyladenine	Br	O-amino acid
CF ₃	H	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CF ₃	H	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CF ₃	H	H	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CF ₃	H	H	O	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CF ₃	H	H	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-amino acid
CF ₃	H	H	O	6-Methylthymine	Br	O-acyl
CF ₃	H	H	O	6-Methyluracil	Br	O-acyl
CF ₃	H	H	O	8-Methylguanine	Br	O-acyl
CF ₃	H	H	O	6-Methylcytosine	Br	O-acyl
CF ₃	H	H	O	8-Methyladenine	Br	O-acyl

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	H	H	O	8-Methylhypoxanthine	Br	O-acyl
CF ₃	H	H	O	5-Fluoro-6-Methyluracil	Br	O-acyl
CF ₃	H	H	O	5-Fluoro-6-Methylcytosine	Br	O-acyl
CF ₃	H	H	O	2-Fluoro-8-methyladenine	Br	O-acyl
CF ₃	H	H	O	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CF ₃	H	H	O	2-Amino-8-methyladenine	Br	O-acyl
CF ₃	H	H	O	2-Amino-8-methylhypoxanthine	Br	O-acyl
CF ₃	H	H	O	2-N-acetyl-8-methylguanine	Br	O-acyl
CF ₃	H	H	O	4-N-acetyl-8-methylcytosine	Br	O-acyl
CF ₃	H	H	O	6-N-acetyl-8-methyladenine	Br	O-acyl
CF ₃	H	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CF ₃	H	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CF ₃	H	H	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CF ₃	H	H	O	2-N-acetylamino-8-methyladenine	Br	O-acyl
CF ₃	H	H	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-acyl
CF ₃	H	H	O	6-Methylthymine	Cl	O-amino acid
CF ₃	H	H	O	6-Methyluracil	Cl	O-amino acid
CF ₃	H	H	O	8-Methylguanine	Cl	O-amino acid
CF ₃	H	H	O	6-Methylcytosine	Cl	O-amino acid
CF ₃	H	H	O	8-Methyladenine	Cl	O-amino acid
CF ₃	H	H	O	8-Methylhypoxanthine	Cl	O-amino acid
CF ₃	H	H	O	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CF ₃	H	H	O	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CF ₃	H	H	O	2-Fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	H	H	O	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	H	H	O	2-Amino-8-methyladenine	Cl	O-amino acid
CF ₃	H	H	O	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	H	H	O	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CF ₃	H	H	O	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CF ₃	H	H	O	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CF ₃	H	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CF ₃	H	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	H	H	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CF ₃	H	H	O	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CF ₃	H	H	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	H	H	O	6-Methylthymine	Cl	O-acyl
CF ₃	H	H	O	6-Methyluracil	Cl	O-acyl
CF ₃	H	H	O	8-Methylguanine	Cl	O-acyl
CF ₃	H	H	O	6-Methylcytosine	Cl	O-acyl
CF ₃	H	H	O	8-Methyladenine	Cl	O-acyl
CF ₃	H	H	O	8-Methylhypoxanthine	Cl	O-acyl
CF ₃	H	H	O	5-Fluoro-6-Methyluracil	Cl	O-acyl
CF ₃	H	H	O	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CF ₃	H	H	O	2-Fluoro-8-methyladenine	Cl	O-acyl
CF ₃	H	H	O	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CF ₃	H	H	O	2-Amino-8-methyladenine	Cl	O-acyl
CF ₃	H	H	O	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CF ₃	H	H	O	2-N-acetyl-8-methylguanine	Cl	O-acyl
CF ₃	H	H	O	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CF ₃	H	H	O	6-N-acetyl-8-methyladenine	Cl	O-acyl
CF ₃	H	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CF ₃	H	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CF ₃	H	H	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CF ₃	H	H	O	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CF ₃	H	H	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-acyl
CF ₃	H	H	O	6-Methylthymine	H	O-amino acid
CF ₃	H	H	O	6-Methyluracil	H	O-amino acid
CF ₃	H	H	O	8-Methylguanine	H	O-amino acid
CF ₃	H	H	O	6-Methylcytosine	H	O-amino acid
CF ₃	H	H	O	8-Methyladenine	H	O-amino acid
CF ₃	H	H	O	8-Methylhypoxanthine	H	O-amino acid
CF ₃	H	H	O	5-Fluoro-6-Methyluracil	H	O-amino acid
CF ₃	H	H	O	5-Fluoro-6-Methylcytosine	H	O-amino acid
CF ₃	H	H	O	2-Fluoro-8-methyladenine	H	O-amino acid
CF ₃	H	H	O	2-Fluoro-8-methylhypoxanthine	H	O-amino acid
CF ₃	H	H	O	2-Amino-8-methyladenine	H	O-amino acid
CF ₃	H	H	O	2-Amino-8-methylhypoxanthine	H	O-amino acid
CF ₃	H	H	O	2-N-acetyl-8-methylguanine	H	O-amino acid
CF ₃	H	H	O	4-N-acetyl-8-methylcytosine	H	O-amino acid
CF ₃	H	H	O	6-N-acetyl-8-methyladenine	H	O-amino acid
CF ₃	H	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-amino acid
CF ₃	H	H	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-amino acid
CF ₃	H	H	O	6-N-acetyl-2-amino-8-methyladenine	H	O-amino acid
CF ₃	H	H	O	2-N-acetylamino-8-methyladenine	H	O-amino acid

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	H	H	O	2-N-acetylamino-8-methylhypoxanthine	H	O-amino acid
CF ₃	H	H	O	6-Methylthymine	H	O-acyl
CF ₃	H	H	O	6-Methyluracil	H	O-acyl
CF ₃	H	H	O	8-Methylguanine	H	O-acyl
CF ₃	H	H	O	6-Methylcytosine	H	O-acyl
CF ₃	H	H	O	8-Methyladenine	H	O-acyl
CF ₃	H	H	O	8-Methylhypoxanthine	H	O-acyl
CF ₃	H	H	O	5-Fluoro-6-Methyluracil	H	O-acyl
CF ₃	H	H	O	5-Fluoro-6-Methylcytosine	H	O-acyl
CF ₃	H	H	O	2-Fluoro-8-methyladenine	H	O-acyl
CF ₃	H	H	O	2-Fluoro-8-methylhypoxanthine	H	O-acyl
CF ₃	H	H	O	2-Amino-8-methyladenine	H	O-acyl
CF ₃	H	H	O	2-Amino-8-methylhypoxanthine	H	O-acyl
CF ₃	H	H	O	2-N-acetyl-8-methylguanine	H	O-acyl
CF ₃	H	H	O	4-N-acetyl-8-methylcytosine	H	O-acyl
CF ₃	H	H	O	6-N-acetyl-8-methyladenine	H	O-acyl
CF ₃	H	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-acyl
CF ₃	H	H	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-acyl
CF ₃	H	H	O	6-N-acetyl-2-amino-8-methyladenine	H	O-acyl
CF ₃	H	H	O	2-N-acetylamino-8-methyladenine	H	O-acyl
CF ₃	H	H	O	2-N-acetylamino-8-methylhypoxanthine	H	O-acyl
CF ₃	H	OH	O	6-Methylthymine	F	O-amino acid
CF ₃	H	OH	O	6-Methyluracil	F	O-amino acid
CF ₃	H	OH	O	8-Methylguanine	F	O-amino acid
CF ₃	H	OH	O	6-Methylcytosine	F	O-amino acid
CF ₃	H	OH	O	8-Methyladenine	F	O-amino acid
CF ₃	H	OH	O	8-Methylhypoxanthine	F	O-amino acid
CF ₃	H	OH	O	5-Fluoro-6-Methyluracil	F	O-amino acid
CF ₃	H	OH	O	5-Fluoro-6-Methylcytosine	F	O-amino acid
CF ₃	H	OH	O	2-Fluoro-8-methyladenine	F	O-amino acid
CF ₃	H	OH	O	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CF ₃	H	OH	O	2-Amino-8-methyladenine	F	O-amino acid
CF ₃	H	OH	O	2-Amino-8-methylhypoxanthine	F	O-amino acid
CF ₃	H	OH	O	2-N-acetyl-8-methylguanine	F	O-amino acid
CF ₃	H	OH	O	4-N-acetyl-8-methylcytosine	F	O-amino acid
CF ₃	H	OH	O	6-N-acetyl-8-methyladenine	F	O-amino acid
CF ₃	H	OH	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CF ₃	H	OH	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CF ₃	H	OH	O	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CF ₃	H	OH	O	2-N-acetylamino-8-methyladenine	F	O-amino acid
CF ₃	H	OH	O	2-N-acetylamino-8-methylhypoxanthine	F	O-amino acid
CF ₃	H	OH	O	6-Methylthymine	F	O-acyl
CF ₃	H	OH	O	6-Methyluracil	F	O-acyl
CF ₃	H	OH	O	8-Methylguanine	F	O-acyl
CF ₃	H	OH	O	6-Methylcytosine	F	O-acyl
CF ₃	H	OH	O	8-Methyladenine	F	O-acyl
CF ₃	H	OH	O	8-Methylhypoxanthine	F	O-acyl
CF ₃	H	OH	O	5-Fluoro-6-Methyluracil	F	O-acyl
CF ₃	H	OH	O	5-Fluoro-6-Methylcytosine	F	O-acyl
CF ₃	H	OH	O	2-Fluoro-8-methyladenine	F	O-acyl
CF ₃	H	OH	O	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CF ₃	H	OH	O	2-Amino-8-methyladenine	F	O-acyl
CF ₃	H	OH	O	2-Amino-8-methylhypoxanthine	F	O-acyl
CF ₃	H	OH	O	2-N-acetyl-8-methylguanine	F	O-acyl
CF ₃	H	OH	O	4-N-acetyl-8-methylcytosine	F	O-acyl
CF ₃	H	OH	O	6-N-acetyl-8-methyladenine	F	O-acyl
CF ₃	H	OH	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CF ₃	H	OH	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CF ₃	H	OH	O	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CF ₃	H	OH	O	2-N-acetylamino-8-methyladenine	F	O-acyl
CF ₃	H	OH	O	2-N-acetylamino-8-methylhypoxanthine	F	O-acyl
CF ₃	H	OH	O	6-Methylthymine	Br	O-amino acid
CF ₃	H	OH	O	6-Methyluracil	Br	O-amino acid
CF ₃	H	OH	O	8-Methylguanine	Br	O-amino acid
CF ₃	H	OH	O	6-Methylcytosine	Br	O-amino acid
CF ₃	H	OH	O	8-Methyladenine	Br	O-amino acid
CF ₃	H	OH	O	8-Methylhypoxanthine	Br	O-amino acid
CF ₃	H	OH	O	5-Fluoro-6-Methyluracil	Br	O-amino acid
CF ₃	H	OH	O	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CF ₃	H	OH	O	2-Fluoro-8-methyladenine	Br	O-amino acid
CF ₃	H	OH	O	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CF ₃	H	OH	O	2-Amino-8-methyladenine	Br	O-amino acid
CF ₃	H	OH	O	2-Amino-8-methylhypoxanthine	Br	O-amino acid

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	H	OH	O	2-N-acetyl-8-methylguanine	Br	O-amino acid
CF ₃	H	OH	O	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CF ₃	H	OH	O	6-N-acetyl-8-methyladenine	Br	O-amino acid
CF ₃	H	OH	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CF ₃	H	OH	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CF ₃	H	OH	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CF ₃	H	OH	O	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CF ₃	H	OH	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-amino acid
CF ₃	H	OH	O	6-Methylthymine	Br	O-acyl
CF ₃	H	OH	O	6-Methyluracil	Br	O-acyl
CF ₃	H	OH	O	8-Methylguanine	Br	O-acyl
CF ₃	H	OH	O	6-Methylcytosine	Br	O-acyl
CF ₃	H	OH	O	8-Methyladenine	Br	O-acyl
CF ₃	H	OH	O	8-Methylhypoxanthine	Br	O-acyl
CF ₃	H	OH	O	5-Fluoro-6-Methyluracil	Br	O-acyl
CF ₃	H	OH	O	5-Fluoro-6-Methylcytosine	Br	O-acyl
CF ₃	H	OH	O	2-Fluoro-8-methyladenine	Br	O-acyl
CF ₃	H	OH	O	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CF ₃	H	OH	O	2-Amino-8-methyladenine	Br	O-acyl
CF ₃	H	OH	O	2-Amino-8-methylhypoxanthine	Br	O-acyl
CF ₃	H	OH	O	2-N-acetyl-8-methylguanine	Br	O-acyl
CF ₃	H	OH	O	4-N-acetyl-8-methylcytosine	Br	O-acyl
CF ₃	H	OH	O	6-N-acetyl-8-methyladenine	Br	O-acyl
CF ₃	H	OH	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CF ₃	H	OH	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CF ₃	H	OH	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CF ₃	H	OH	O	2-N-acetylamino-8-methyladenine	Br	O-acyl
CF ₃	H	OH	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-acyl
CF ₃	H	OH	O	6-Methylthymine	Cl	O-amino acid
CF ₃	H	OH	O	6-Methyluracil	Cl	O-amino acid
CF ₃	H	OH	O	8-Methylguanine	Cl	O-amino acid
CF ₃	H	OH	O	6-Methylcytosine	Cl	O-amino acid
CF ₃	H	OH	O	8-Methyladenine	Cl	O-amino acid
CF ₃	H	OH	O	8-Methylhypoxanthine	Cl	O-amino acid
CF ₃	H	OH	O	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CF ₃	H	OH	O	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CF ₃	H	OH	O	2-Fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	H	OH	O	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	H	OH	O	2-Amino-8-methyladenine	Cl	O-amino acid
CF ₃	H	OH	O	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	H	OH	O	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CF ₃	H	OH	O	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CF ₃	H	OH	O	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CF ₃	H	OH	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CF ₃	H	OH	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	H	OH	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CF ₃	H	OH	O	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CF ₃	H	OH	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	H	OH	O	6-Methylthymine	Cl	O-acyl
CF ₃	H	OH	O	6-Methyluracil	Cl	O-acyl
CF ₃	H	OH	O	8-Methylguanine	Cl	O-acyl
CF ₃	H	OH	O	6-Methylcytosine	Cl	O-acyl
CF ₃	H	OH	O	8-Methyladenine	Cl	O-acyl
CF ₃	H	OH	O	8-Methylhypoxanthine	Cl	O-acyl
CF ₃	H	OH	O	5-Fluoro-6-Methyluracil	Cl	O-acyl
CF ₃	H	OH	O	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CF ₃	H	OH	O	2-Fluoro-8-methyladenine	Cl	O-acyl
CF ₃	H	OH	O	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CF ₃	H	OH	O	2-Amino-8-methyladenine	Cl	O-acyl
CF ₃	H	OH	O	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CF ₃	H	OH	O	2-N-acetyl-8-methylguanine	Cl	O-acyl
CF ₃	H	OH	O	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CF ₃	H	OH	O	6-N-acetyl-8-methyladenine	Cl	O-acyl
CF ₃	H	OH	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CF ₃	H	OH	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CF ₃	H	OH	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CF ₃	H	OH	O	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CF ₃	H	OH	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-acyl
CF ₃	H	OH	O	6-Methylthymine	H	O-amino acid
CF ₃	H	OH	O	6-Methyluracil	H	O-amino acid
CF ₃	H	OH	O	8-Methylguanine	H	O-amino acid
CF ₃	H	OH	O	6-Methylcytosine	H	O-amino acid
CF ₃	H	OH	O	8-Methyladenine	H	O-amino acid

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	H	OH	O	8-Methylhypoxanthine	H	O-amino acid
CF ₃	H	OH	O	5-Fluoro-6-Methyluracil	H	O-amino acid
CF ₃	H	OH	O	5-Fluoro-6-Methylcytosine	H	O-amino acid
CF ₃	H	OH	O	2-Fluoro-8-methyladenine	H	O-amino acid
CF ₃	H	OH	O	2-Fluoro-8-methylhypoxanthine	H	O-amino acid
CF ₃	H	OH	O	2-Amino-8-methyladenine	H	O-amino acid
CF ₃	H	OH	O	2-Amino-8-methylhypoxanthine	H	O-amino acid
CF ₃	H	OH	O	2-N-acetyl-8-methylguanine	H	O-amino acid
CF ₃	H	OH	O	4-N-acetyl-8-methylcytosine	H	O-amino acid
CF ₃	H	OH	O	6-N-acetyl-8-methyladenine	H	O-amino acid
CF ₃	H	OH	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-amino acid
CF ₃	H	OH	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-amino acid
CF ₃	H	OH	O	6-N-acetyl-2-amino-8-methyladenine	H	O-amino acid
CF ₃	H	OH	O	2-N-acetylamino-8-methyladenine	H	O-amino acid
CF ₃	H	OH	O	2-N-acetylamino-8-methylhypoxanthine	H	O-amino acid
CF ₃	H	OH	O	6-Methylthymine	H	O-acyl
CF ₃	H	OH	O	6-Methyluracil	H	O-acyl
CF ₃	H	OH	O	8-Methylguanine	H	O-acyl
CF ₃	H	OH	O	6-Methylcytosine	H	O-acyl
CF ₃	H	OH	O	8-Methyladenine	H	O-acyl
CF ₃	H	OH	O	8-Methylhypoxanthine	H	O-acyl
CF ₃	H	OH	O	5-Fluoro-6-Methyluracil	H	O-acyl
CF ₃	H	OH	O	5-Fluoro-6-Methylcytosine	H	O-acyl
CF ₃	H	OH	O	2-Fluoro-8-methyladenine	H	O-acyl
CF ₃	H	OH	O	2-Fluoro-8-methylhypoxanthine	H	O-acyl
CF ₃	H	OH	O	2-Amino-8-methyladenine	H	O-acyl
CF ₃	H	OH	O	2-Amino-8-methylhypoxanthine	H	O-acyl
CF ₃	H	OH	O	2-N-acetyl-8-methylguanine	H	O-acyl
CF ₃	H	OH	O	4-N-acetyl-8-methylcytosine	H	O-acyl
CF ₃	H	OH	O	6-N-acetyl-8-methyladenine	H	O-acyl
CF ₃	H	OH	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-acyl
CF ₃	H	OH	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-acyl
CF ₃	H	OH	O	6-N-acetyl-2-amino-8-methyladenine	H	O-acyl
CF ₃	H	OH	O	2-N-acetylamino-8-methyladenine	H	O-acyl
CF ₃	H	OH	O	2-N-acetylamino-8-methylhypoxanthine	H	O-acyl
CF ₃	O-acyl	F	O	6-Methylthymine	F	H
CF ₃	O-acyl	F	O	6-Methyluracil	F	H
CF ₃	O-acyl	F	O	8-Methylguanine	F	H
CF ₃	O-acyl	F	O	6-Methylcytosine	F	H
CF ₃	O-acyl	F	O	8-Methyladenine	F	H
CF ₃	O-acyl	F	O	8-Methylhypoxanthine	F	H
CF ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	F	H
CF ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	F	H
CF ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	F	H
CF ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	F	H
CF ₃	O-acyl	F	O	2-Amino-8-methyladenine	F	H
CF ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	F	H
CF ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	F	H
CF ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	F	H
CF ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	F	H
CF ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	H
CF ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	F	H
CF ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	F	H
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methyladenine	F	H
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methylhypoxanthine	F	H
CF ₃	O-acyl	F	O	6-Methylthymine	F	O-amino acid
CF ₃	O-acyl	F	O	6-Methyluracil	F	O-amino acid
CF ₃	O-acyl	F	O	8-Methylguanine	F	O-amino acid
CF ₃	O-acyl	F	O	6-Methylcytosine	F	O-amino acid
CF ₃	O-acyl	F	O	8-Methyladenine	F	O-amino acid
CF ₃	O-acyl	F	O	8-Methylhypoxanthine	F	O-amino acid
CF ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	F	O-amino acid
CF ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	F	O-amino acid
CF ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-acyl	F	O	2-Amino-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	F	O-amino acid
CF ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	F	O-amino acid
CF ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CF ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methyladenine	F	O-amino acid

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-acyl	F	O	6-Methylthymine	F	O-acyl
CF ₃	O-acyl	F	O	6-Methyluracil	F	O-acyl
CF ₃	O-acyl	F	O	8-Methylguanine	F	O-acyl
CF ₃	O-acyl	F	O	6-Methylcytosine	F	O-acyl
CF ₃	O-acyl	F	O	8-Methyladenine	F	O-acyl
CF ₃	O-acyl	F	O	8-Methylhypoxanthine	F	O-acyl
CF ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	F	O-acyl
CF ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	F	O-acyl
CF ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	F	O-acyl
CF ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CF ₃	O-acyl	F	O	2-Amino-8-methyladenine	F	O-acyl
CF ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	F	O-acyl
CF ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	F	O-acyl
CF ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	F	O-acyl
CF ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	F	O-acyl
CF ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CF ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CF ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methyladenine	F	O-acyl
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methylhypoxanthine	F	O-acyl
CF ₃	O-acyl	F	O	6-Methylthymine	F	OH
CF ₃	O-acyl	F	O	6-Methyluracil	F	OH
CF ₃	O-acyl	F	O	8-Methylguanine	F	OH
CF ₃	O-acyl	F	O	6-Methylcytosine	F	OH
CF ₃	O-acyl	F	O	8-Methyladenine	F	OH
CF ₃	O-acyl	F	O	8-Methylhypoxanthine	F	OH
CF ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	F	OH
CF ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	F	OH
CF ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	F	OH
CF ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	F	OH
CF ₃	O-acyl	F	O	2-Amino-8-methyladenine	F	OH
CF ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	F	OH
CF ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	F	OH
CF ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	F	OH
CF ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	F	OH
CF ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	OH
CF ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	F	OH
CF ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	F	OH
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methyladenine	F	OH
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methylhypoxanthine	F	OH
CF ₃	O-acyl	F	O	6-Methylthymine	Br	H
CF ₃	O-acyl	F	O	6-Methyluracil	Br	H
CF ₃	O-acyl	F	O	8-Methylguanine	Br	H
CF ₃	O-acyl	F	O	6-Methylcytosine	Br	H
CF ₃	O-acyl	F	O	8-Methyladenine	Br	H
CF ₃	O-acyl	F	O	8-Methylhypoxanthine	Br	H
CF ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	Br	H
CF ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	Br	H
CF ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	Br	H
CF ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	Br	H
CF ₃	O-acyl	F	O	2-Amino-8-methyladenine	Br	H
CF ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	Br	H
CF ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	Br	H
CF ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	Br	H
CF ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	Br	H
CF ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	H
CF ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	H
CF ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	Br	H
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methyladenine	Br	H
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methylhypoxanthine	Br	H
CF ₃	O-acyl	F	O	6-Methylthymine	Br	O-amino acid
CF ₃	O-acyl	F	O	6-Methyluracil	Br	O-amino acid
CF ₃	O-acyl	F	O	8-Methylguanine	Br	O-amino acid
CF ₃	O-acyl	F	O	6-Methylcytosine	Br	O-amino acid
CF ₃	O-acyl	F	O	8-Methyladenine	Br	O-amino acid
CF ₃	O-acyl	F	O	8-Methylhypoxanthine	Br	O-amino acid
CF ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	Br	O-amino acid
CF ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CF ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-acyl	F	O	2-Amino-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	Br	O-amino acid

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	Br	O-amino acid
CF ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CF ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CF ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-acyl	F	O	6-Methylthymine	Br	O-acyl
CF ₃	O-acyl	F	O	6-Methyluracil	Br	O-acyl
CF ₃	O-acyl	F	O	8-Methylguanine	Br	O-acyl
CF ₃	O-acyl	F	O	6-Methylcytosine	Br	O-acyl
CF ₃	O-acyl	F	O	8-Methyladenine	Br	O-acyl
CF ₃	O-acyl	F	O	8-Methylhypoxanthine	Br	O-acyl
CF ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	Br	O-acyl
CF ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	Br	O-acyl
CF ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-acyl	F	O	2-Amino-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	Br	O-acyl
CF ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	Br	O-acyl
CF ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CF ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-acyl	F	O	6-Methylthymine	Br	OH
CF ₃	O-acyl	F	O	6-Methyluracil	Br	OH
CF ₃	O-acyl	F	O	8-Methylguanine	Br	OH
CF ₃	O-acyl	F	O	6-Methylcytosine	Br	OH
CF ₃	O-acyl	F	O	8-Methyladenine	Br	OH
CF ₃	O-acyl	F	O	8-Methylhypoxanthine	Br	OH
CF ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	Br	OH
CF ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	Br	OH
CF ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	Br	OH
CF ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	Br	OH
CF ₃	O-acyl	F	O	2-Amino-8-methyladenine	Br	OH
CF ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	Br	OH
CF ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	Br	OH
CF ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	Br	OH
CF ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	Br	OH
CF ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	OH
CF ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	OH
CF ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	Br	OH
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methyladenine	Br	OH
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methylhypoxanthine	Br	OH
CF ₃	O-acyl	F	O	6-Methylthymine	Cl	O-acyl
CF ₃	O-acyl	F	O	6-Methyluracil	Cl	O-acyl
CF ₃	O-acyl	F	O	8-Methylguanine	Cl	O-acyl
CF ₃	O-acyl	F	O	6-Methylcytosine	Cl	O-acyl
CF ₃	O-acyl	F	O	8-Methyladenine	Cl	O-acyl
CF ₃	O-acyl	F	O	8-Methylhypoxanthine	Cl	O-acyl
CF ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	Cl	O-acyl
CF ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CF ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-acyl	F	O	2-Amino-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	Cl	O-acyl
CF ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CF ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CF ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-acyl	F	O	6-Methylthymine	Cl	OH
CF ₃	O-acyl	F	O	6-Methyluracil	Cl	OH
CF ₃	O-acyl	F	O	8-Methylguanine	Cl	OH
CF ₃	O-acyl	F	O	6-Methylcytosine	Cl	OH
CF ₃	O-acyl	F	O	8-Methyladenine	Cl	OH

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	F	O	8-Methylhypoxanthine	Cl	OH
CF ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	Cl	OH
CF ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	Cl	OH
CF ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	Cl	OH
CF ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	Cl	OH
CF ₃	O-acyl	F	O	2-Amino-8-methyladenine	Cl	OH
CF ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	Cl	OH
CF ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	Cl	OH
CF ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	Cl	OH
CF ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	Cl	OH
CF ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	OH
CF ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	OH
CF ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	Cl	OH
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methyladenine	Cl	OH
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methylhypoxanthine	Cl	OH
CF ₃	O-acyl	F	O	6-Methylthymine	Cl	H
CF ₃	O-acyl	F	O	6-Methyluracil	Cl	H
CF ₃	O-acyl	F	O	8-Methylguanine	Cl	H
CF ₃	O-acyl	F	O	6-Methylcytosine	Cl	H
CF ₃	O-acyl	F	O	8-Methyladenine	Cl	H
CF ₃	O-acyl	F	O	8-Methylhypoxanthine	Cl	H
CF ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	Cl	H
CF ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	Cl	H
CF ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	Cl	H
CF ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	Cl	H
CF ₃	O-acyl	F	O	2-Amino-8-methyladenine	Cl	H
CF ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	Cl	H
CF ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	Cl	H
CF ₃	O-acyl	F	O	6-Methylthymine	Cl	O-amino acid
CF ₃	O-acyl	F	O	6-Methyluracil	Cl	O-amino acid
CF ₃	O-acyl	F	O	8-Methylguanine	Cl	O-amino acid
CF ₃	O-acyl	F	O	6-Methylcytosine	Cl	O-amino acid
CF ₃	O-acyl	F	O	8-Methyladenine	Cl	O-amino acid
CF ₃	O-acyl	F	O	8-Methylhypoxanthine	Cl	O-amino acid
CF ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CF ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CF ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	O-acyl	F	O	2-Amino-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CF ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CF ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CF ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	O-acyl	F	O	6-Methylthymine	H	H
CF ₃	O-acyl	F	O	6-Methyluracil	H	H
CF ₃	O-acyl	F	O	8-Methylguanine	H	H
CF ₃	O-acyl	F	O	6-Methylcytosine	H	H
CF ₃	O-acyl	F	O	8-Methyladenine	H	H
CF ₃	O-acyl	F	O	8-Methylhypoxanthine	H	H
CF ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	H	H
CF ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	H	H
CF ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	H	H
CF ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	H	H
CF ₃	O-acyl	F	O	2-Amino-8-methyladenine	H	H
CF ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	H	H
CF ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	H	H
CF ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	H	H
CF ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	H	H
CF ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	H
CF ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	H	H
CF ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	H	H
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methyladenine	H	H
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methylhypoxanthine	H	H
CF ₃	O-acyl	F	O	6-Methylthymine	H	O-amino acid
CF ₃	O-acyl	F	O	6-Methyluracil	H	O-amino acid
CF ₃	O-acyl	F	O	8-Methylguanine	H	O-amino acid
CF ₃	O-acyl	F	O	6-Methylcytosine	H	O-amino acid
CF ₃	O-acyl	F	O	8-Methyladenine	H	O-amino acid
CF ₃	O-acyl	F	O	8-Methylhypoxanthine	H	O-amino acid

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	H	O-amino acid
CF ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	H	O-amino acid
CF ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	H	O-amino acid
CF ₃	O-acyl	F	O	2-Amino-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	H	O-amino acid
CF ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	H	O-amino acid
CF ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	H	O-amino acid
CF ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-amino acid
CF ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methylhypoxanthine	H	O-amino acid
CF ₃	O-acyl	F	O	6-Methylthymine	H	O-acyl
CF ₃	O-acyl	F	O	6-Methyluracil	H	O-acyl
CF ₃	O-acyl	F	O	8-Methylguanine	H	O-acyl
CF ₃	O-acyl	F	O	6-Methylcytosine	H	O-acyl
CF ₃	O-acyl	F	O	8-Methyladenine	H	O-acyl
CF ₃	O-acyl	F	O	8-Methylhypoxanthine	H	O-acyl
CF ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	H	O-acyl
CF ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	H	O-acyl
CF ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	H	O-acyl
CF ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	H	O-acyl
CF ₃	O-acyl	F	O	2-Amino-8-methyladenine	H	O-acyl
CF ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	H	O-acyl
CF ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	H	O-acyl
CF ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	H	O-acyl
CF ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	H	O-acyl
CF ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-acyl
CF ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-acyl
CF ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	H	O-acyl
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methyladenine	H	O-acyl
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methylhypoxanthine	H	O-acyl
CF ₃	O-acyl	F	O	6-Methylthymine	H	OH
CF ₃	O-acyl	F	O	6-Methyluracil	H	OH
CF ₃	O-acyl	F	O	8-Methylguanine	H	OH
CF ₃	O-acyl	F	O	6-Methylcytosine	H	OH
CF ₃	O-acyl	F	O	8-Methyladenine	H	OH
CF ₃	O-acyl	F	O	8-Methylhypoxanthine	H	OH
CF ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	H	OH
CF ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	H	OH
CF ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	H	OH
CF ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	H	OH
CF ₃	O-acyl	F	O	2-Amino-8-methyladenine	H	OH
CF ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	H	OH
CF ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	H	OH
CF ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	H	OH
CF ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	H	OH
CF ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	OH
CF ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	H	OH
CF ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	H	OH
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methyladenine	H	OH
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methylhypoxanthine	H	OH
CF ₃	O-acyl	F	O	6-Methylthymine	OH	H
CF ₃	O-acyl	F	O	6-Methyluracil	OH	H
CF ₃	O-acyl	F	O	8-Methylguanine	OH	H
CF ₃	O-acyl	F	O	6-Methylcytosine	OH	H
CF ₃	O-acyl	F	O	8-Methyladenine	OH	H
CF ₃	O-acyl	F	O	8-Methylhypoxanthine	OH	H
CF ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	OH	H
CF ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	OH	H
CF ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	OH	H
CF ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	OH	H
CF ₃	O-acyl	F	O	2-Amino-8-methyladenine	OH	H
CF ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	OH	H
CF ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	OH	H
CF ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	OH	H
CF ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	OH	H
CF ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	OH	H
CF ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	OH	H
CF ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	OH	H
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methyladenine	OH	H
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methylhypoxanthine	OH	H

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methylhypoxanthine	OH	H
CF ₃	O-acyl	Br	O	6-Methylthymine	F	H
CF ₃	O-acyl	Br	O	6-Methyluracil	F	H
CF ₃	O-acyl	Br	O	8-Methylguanine	F	H
CF ₃	O-acyl	Br	O	6-Methylcytosine	F	H
CF ₃	O-acyl	Br	O	8-Methyladenine	F	H
CF ₃	O-acyl	Br	O	8-Methylhypoxanthine	F	H
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	F	H
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	F	H
CF ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	F	H
CF ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	F	H
CF ₃	O-acyl	Br	O	2-Amino-8-methyladenine	F	H
CF ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	F	H
CF ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	F	H
CF ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	F	H
CF ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	F	H
CF ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	H
CF ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	F	H
CF ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	F	H
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	F	H
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	F	H
CF ₃	O-acyl	Br	O	6-Methylthymine	F	O-amino acid
CF ₃	O-acyl	Br	O	6-Methyluracil	F	O-amino acid
CF ₃	O-acyl	Br	O	8-Methylguanine	F	O-amino acid
CF ₃	O-acyl	Br	O	6-Methylcytosine	F	O-amino acid
CF ₃	O-acyl	Br	O	8-Methyladenine	F	O-amino acid
CF ₃	O-acyl	Br	O	8-Methylhypoxanthine	F	O-amino acid
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	F	O-amino acid
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	F	O-amino acid
CF ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-acyl	Br	O	2-Amino-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	F	O-amino acid
CF ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	F	O-amino acid
CF ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CF ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-acyl	Br	O	6-Methylthymine	F	O-acyl
CF ₃	O-acyl	Br	O	6-Methyluracil	F	O-acyl
CF ₃	O-acyl	Br	O	8-Methylguanine	F	O-acyl
CF ₃	O-acyl	Br	O	6-Methylcytosine	F	O-acyl
CF ₃	O-acyl	Br	O	8-Methyladenine	F	O-acyl
CF ₃	O-acyl	Br	O	8-Methylhypoxanthine	F	O-acyl
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	F	O-acyl
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	F	O-acyl
CF ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	F	O-acyl
CF ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CF ₃	O-acyl	Br	O	2-Amino-8-methyladenine	F	O-acyl
CF ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	F	O-acyl
CF ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	F	O-acyl
CF ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	F	O-acyl
CF ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	F	O-acyl
CF ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CF ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CF ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	F	O-acyl
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	F	O-acyl
CF ₃	O-acyl	Br	O	6-Methylthymine	F	OH
CF ₃	O-acyl	Br	O	6-Methyluracil	F	OH
CF ₃	O-acyl	Br	O	8-Methylguanine	F	OH
CF ₃	O-acyl	Br	O	6-Methylcytosine	F	OH
CF ₃	O-acyl	Br	O	8-Methyladenine	F	OH
CF ₃	O-acyl	Br	O	8-Methylhypoxanthine	F	OH
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	F	OH
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	F	OH
CF ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	F	OH
CF ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	F	OH
CF ₃	O-acyl	Br	O	2-Amino-8-methyladenine	F	OH
CF ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	F	OH

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	F	OH
CF ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	F	OH
CF ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	F	OH
CF ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	OH
CF ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	F	OH
CF ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	F	OH
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	F	OH
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	F	OH
CF ₃	O-acyl	Br	O	6-Methylthymine	Br	H
CF ₃	O-acyl	Br	O	6-Methyluracil	Br	H
CF ₃	O-acyl	Br	O	8-Methylguanine	Br	H
CF ₃	O-acyl	Br	O	6-Methylcytosine	Br	H
CF ₃	O-acyl	Br	O	8-Methyladenine	Br	H
CF ₃	O-acyl	Br	O	8-Methylhypoxanthine	Br	H
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	Br	H
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	Br	H
CF ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	Br	H
CF ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	Br	H
CF ₃	O-acyl	Br	O	2-Amino-8-methyladenine	Br	H
CF ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	Br	H
CF ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	Br	H
CF ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	Br	H
CF ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	Br	H
CF ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	H
CF ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	H
CF ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	Br	H
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	Br	H
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	Br	H
CF ₃	O-acyl	Br	O	6-Methylthymine	Br	O-amino acid
CF ₃	O-acyl	Br	O	6-Methyluracil	Br	O-amino acid
CF ₃	O-acyl	Br	O	8-Methylguanine	Br	O-amino acid
CF ₃	O-acyl	Br	O	6-Methylcytosine	Br	O-amino acid
CF ₃	O-acyl	Br	O	8-Methyladenine	Br	O-amino acid
CF ₃	O-acyl	Br	O	8-Methylhypoxanthine	Br	O-amino acid
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	Br	O-amino acid
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CF ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-acyl	Br	O	2-Amino-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	Br	O-amino acid
CF ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CF ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CF ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-acyl	Br	O	6-Methylthymine	Br	O-acyl
CF ₃	O-acyl	Br	O	6-Methyluracil	Br	O-acyl
CF ₃	O-acyl	Br	O	8-Methylguanine	Br	O-acyl
CF ₃	O-acyl	Br	O	6-Methylcytosine	Br	O-acyl
CF ₃	O-acyl	Br	O	8-Methyladenine	Br	O-acyl
CF ₃	O-acyl	Br	O	8-Methylhypoxanthine	Br	O-acyl
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	Br	O-acyl
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	Br	O-acyl
CF ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-acyl	Br	O	2-Amino-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	Br	O-acyl
CF ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	Br	O-acyl
CF ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CF ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-acyl	Br	O	6-Methylthymine	Br	OH
CF ₃	O-acyl	Br	O	6-Methyluracil	Br	OH
CF ₃	O-acyl	Br	O	8-Methylguanine	Br	OH
CF ₃	O-acyl	Br	O	6-Methylcytosine	Br	OH
CF ₃	O-acyl	Br	O	8-Methyladenine	Br	OH
CF ₃	O-acyl	Br	O	8-Methylhypoxanthine	Br	OH

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	Br	OH
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	Br	OH
CF ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	Br	OH
CF ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	Br	OH
CF ₃	O-acyl	Br	O	2-Amino-8-methyladenine	Br	OH
CF ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	Br	OH
CF ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	Br	OH
CF ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	Br	OH
CF ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	Br	OH
CF ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	OH
CF ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	OH
CF ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	Br	OH
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	Br	OH
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	Br	OH
CF ₃	O-acyl	Br	O	6-Methylthymine	Cl	H
CF ₃	O-acyl	Br	O	6-Methyluracil	Cl	H
CF ₃	O-acyl	Br	O	8-Methylguanine	Cl	H
CF ₃	O-acyl	Br	O	6-Methylcytosine	Cl	H
CF ₃	O-acyl	Br	O	8-Methyladenine	Cl	H
CF ₃	O-acyl	Br	O	8-Methylhypoxanthine	Cl	H
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	Cl	H
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	Cl	H
CF ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	Cl	H
CF ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	Cl	H
CF ₃	O-acyl	Br	O	2-Amino-8-methyladenine	Cl	H
CF ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	Cl	H
CF ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	Cl	H
CF ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	Cl	H
CF ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	Cl	H
CF ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	H
CF ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	H
CF ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	Cl	H
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	Cl	H
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	Cl	H
CF ₃	O-acyl	Br	O	6-Methylthymine	Cl	O-amino acid
CF ₃	O-acyl	Br	O	6-Methyluracil	Cl	O-amino acid
CF ₃	O-acyl	Br	O	8-Methylguanine	Cl	O-amino acid
CF ₃	O-acyl	Br	O	6-Methylcytosine	Cl	O-amino acid
CF ₃	O-acyl	Br	O	8-Methyladenine	Cl	O-amino acid
CF ₃	O-acyl	Br	O	8-Methylhypoxanthine	Cl	O-amino acid
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CF ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	O-acyl	Br	O	2-Amino-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CF ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CF ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CF ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	O-acyl	Br	O	6-Methylthymine	Cl	O-acyl
CF ₃	O-acyl	Br	O	6-Methyluracil	Cl	O-acyl
CF ₃	O-acyl	Br	O	8-Methylguanine	Cl	O-acyl
CF ₃	O-acyl	Br	O	6-Methylcytosine	Cl	O-acyl
CF ₃	O-acyl	Br	O	8-Methyladenine	Cl	O-acyl
CF ₃	O-acyl	Br	O	8-Methylhypoxanthine	Cl	O-acyl
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	Cl	O-acyl
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CF ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-acyl	Br	O	2-Amino-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	Cl	O-acyl
CF ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CF ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CF ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-acyl

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-acyl	Br	O	6-Methylthymine	Cl	OH
CF ₃	O-acyl	Br	O	6-Methyluracil	Cl	OH
CF ₃	O-acyl	Br	O	8-Methylguanine	Cl	OH
CF ₃	O-acyl	Br	O	6-Methylcytosine	Cl	OH
CF ₃	O-acyl	Br	O	8-Methyladenine	Cl	OH
CF ₃	O-acyl	Br	O	8-Methylhypoxanthine	Cl	OH
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	Cl	OH
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	Cl	OH
CF ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	Cl	OH
CF ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	Cl	OH
CF ₃	O-acyl	Br	O	2-Amino-8-methyladenine	Cl	OH
CF ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	Cl	OH
CF ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	Cl	OH
CF ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	Cl	OH
CF ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	Cl	OH
CF ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	OH
CF ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	OH
CF ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	Cl	OH
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	Cl	OH
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	Cl	OH
CF ₃	O-acyl	Br	O	6-Methylthymine	H	H
CF ₃	O-acyl	Br	O	6-Methyluracil	H	H
CF ₃	O-acyl	Br	O	8-Methylguanine	H	H
CF ₃	O-acyl	Br	O	6-Methylcytosine	H	H
CF ₃	O-acyl	Br	O	8-Methyladenine	H	H
CF ₃	O-acyl	Br	O	8-Methylhypoxanthine	H	H
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	H	H
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	H	H
CF ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	H	H
CF ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	H	H
CF ₃	O-acyl	Br	O	2-Amino-8-methyladenine	H	H
CF ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	H	H
CF ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	H	H
CF ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	H	H
CF ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	H	H
CF ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	H
CF ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	H	H
CF ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	H	H
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	H	H
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	H	H
CF ₃	O-acyl	Br	O	6-Methylthymine	H	O-amino acid
CF ₃	O-acyl	Br	O	6-Methyluracil	H	O-amino acid
CF ₃	O-acyl	Br	O	8-Methylguanine	H	O-amino acid
CF ₃	O-acyl	Br	O	6-Methylcytosine	H	O-amino acid
CF ₃	O-acyl	Br	O	8-Methyladenine	H	O-amino acid
CF ₃	O-acyl	Br	O	8-Methylhypoxanthine	H	O-amino acid
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	H	O-amino acid
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	H	O-amino acid
CF ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	H	O-amino acid
CF ₃	O-acyl	Br	O	2-Amino-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	H	O-amino acid
CF ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	H	O-amino acid
CF ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	H	O-amino acid
CF ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-amino acid
CF ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	H	O-amino acid
CF ₃	O-acyl	Br	O	6-Methylthymine	H	O-acyl
CF ₃	O-acyl	Br	O	6-Methyluracil	H	O-acyl
CF ₃	O-acyl	Br	O	8-Methylguanine	H	O-acyl
CF ₃	O-acyl	Br	O	6-Methylcytosine	H	O-acyl
CF ₃	O-acyl	Br	O	8-Methyladenine	H	O-acyl
CF ₃	O-acyl	Br	O	8-Methylhypoxanthine	H	O-acyl
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	H	O-acyl
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	H	O-acyl
CF ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	H	O-acyl
CF ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	H	O-acyl
CF ₃	O-acyl	Br	O	2-Amino-8-methyladenine	H	O-acyl
CF ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	H	O-acyl

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	H	O-acyl
CF ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	H	O-acyl
CF ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	H	O-acyl
CF ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-acyl
CF ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-acyl
CF ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	H	O-acyl
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	H	O-acyl
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	H	O-acyl
CF ₃	O-acyl	Br	O	6-Methylthymine	H	OH
CF ₃	O-acyl	Br	O	6-Methyluracil	H	OH
CF ₃	O-acyl	Br	O	8-Methylguanine	H	OH
CF ₃	O-acyl	Br	O	6-Methylcytosine	H	OH
CF ₃	O-acyl	Br	O	8-Methyladenine	H	OH
CF ₃	O-acyl	Br	O	8-Methylhypoxanthine	H	OH
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	H	OH
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	H	OH
CF ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	H	OH
CF ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	H	OH
CF ₃	O-acyl	Br	O	2-Amino-8-methyladenine	H	OH
CF ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	H	OH
CF ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	H	OH
CF ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	H	OH
CF ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	H	OH
CF ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	OH
CF ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	H	OH
CF ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	H	OH
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	H	OH
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	H	OH
CF ₃	O-acyl	Br	O	6-Methylthymine	OH	H
CF ₃	O-acyl	Br	O	6-Methyluracil	OH	H
CF ₃	O-acyl	Br	O	8-Methylguanine	OH	H
CF ₃	O-acyl	Br	O	6-Methylcytosine	OH	H
CF ₃	O-acyl	Br	O	8-Methyladenine	OH	H
CF ₃	O-acyl	Br	O	8-Methylhypoxanthine	OH	H
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	OH	H
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	OH	H
CF ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	OH	H
CF ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	OH	H
CF ₃	O-acyl	Br	O	2-Amino-8-methyladenine	OH	H
CF ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	OH	H
CF ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	OH	H
CF ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	OH	H
CF ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	OH	H
CF ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	OH	H
CF ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	OH	H
CF ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	OH	H
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	OH	H
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methylhypoxanthine	OH	H
CF ₃	O-acyl	Cl	O	6-Methylthymine	F	H
CF ₃	O-acyl	Cl	O	6-Methyluracil	F	H
CF ₃	O-acyl	Cl	O	8-Methylguanine	F	H
CF ₃	O-acyl	Cl	O	6-Methylcytosine	F	H
CF ₃	O-acyl	Cl	O	8-Methyladenine	F	H
CF ₃	O-acyl	Cl	O	8-Methylhypoxanthine	F	H
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	F	H
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	F	H
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	F	H
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	F	H
CF ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	F	H
CF ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	F	H
CF ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	F	H
CF ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	F	H
CF ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	F	H
CF ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	H
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	F	H
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	F	H
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methyladenine	F	H
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methylhypoxanthine	F	H
CF ₃	O-acyl	Cl	O	6-Methylthymine	F	O-amino acid
CF ₃	O-acyl	Cl	O	6-Methyluracil	F	O-amino acid
CF ₃	O-acyl	Cl	O	8-Methylguanine	F	O-amino acid
CF ₃	O-acyl	Cl	O	6-Methylcytosine	F	O-amino acid
CF ₃	O-acyl	Cl	O	8-Methyladenine	F	O-amino acid

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	Cl	O	8-Methylhypoxanthine	F	O-amino acid
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	F	O-amino acid
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	F	O-amino acid
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	F	O-amino acid
CF ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	F	O-amino acid
CF ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-acyl	Cl	O	6-Methylthymine	F	O-acyl
CF ₃	O-acyl	Cl	O	6-Methyluracil	F	O-acyl
CF ₃	O-acyl	Cl	O	8-Methylguanine	F	O-acyl
CF ₃	O-acyl	Cl	O	6-Methylcytosine	F	O-acyl
CF ₃	O-acyl	Cl	O	8-Methyladenine	F	O-acyl
CF ₃	O-acyl	Cl	O	8-Methylhypoxanthine	F	O-acyl
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	F	O-acyl
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	F	O-acyl
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	F	O-acyl
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CF ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	F	O-acyl
CF ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	F	O-acyl
CF ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	F	O-acyl
CF ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	F	O-acyl
CF ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	F	O-acyl
CF ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methyladenine	F	O-acyl
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methylhypoxanthine	F	O-acyl
CF ₃	O-acyl	Cl	O	6-Methylthymine	F	OH
CF ₃	O-acyl	Cl	O	6-Methyluracil	F	OH
CF ₃	O-acyl	Cl	O	8-Methylguanine	F	OH
CF ₃	O-acyl	Cl	O	6-Methylcytosine	F	OH
CF ₃	O-acyl	Cl	O	8-Methyladenine	F	OH
CF ₃	O-acyl	Cl	O	8-Methylhypoxanthine	F	OH
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	F	OH
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	F	OH
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	F	OH
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	F	OH
CF ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	F	OH
CF ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	F	OH
CF ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	F	OH
CF ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	F	OH
CF ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	F	OH
CF ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	OH
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	F	OH
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	F	OH
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methyladenine	F	OH
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methylhypoxanthine	F	OH
CF ₃	O-acyl	Cl	O	6-Methylthymine	Br	H
CF ₃	O-acyl	Cl	O	6-Methyluracil	Br	H
CF ₃	O-acyl	Cl	O	8-Methylguanine	Br	H
CF ₃	O-acyl	Cl	O	6-Methylcytosine	Br	H
CF ₃	O-acyl	Cl	O	8-Methyladenine	Br	H
CF ₃	O-acyl	Cl	O	8-Methylhypoxanthine	Br	H
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	Br	H
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	Br	H
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	Br	H
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	Br	H
CF ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	Br	H
CF ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	Br	H
CF ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	Br	H
CF ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	Br	H
CF ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	Br	H
CF ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	H
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	H
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Br	H
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methyladenine	Br	H

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Br	H
CF ₃	O-acyl	Cl	O	6-Methylthymine	Br	O-amino acid
CF ₃	O-acyl	Cl	O	6-Methyluracil	Br	O-amino acid
CF ₃	O-acyl	Cl	O	8-Methylguanine	Br	O-amino acid
CF ₃	O-acyl	Cl	O	6-Methylcytosine	Br	O-amino acid
CF ₃	O-acyl	Cl	O	8-Methyladenine	Br	O-amino acid
CF ₃	O-acyl	Cl	O	8-Methylhypoxanthine	Br	O-amino acid
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	Br	O-amino acid
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	Br	O-amino acid
CF ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CF ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-acyl	Cl	O	6-Methylthymine	Br	O-acyl
CF ₃	O-acyl	Cl	O	6-Methyluracil	Br	O-acyl
CF ₃	O-acyl	Cl	O	8-Methylguanine	Br	O-acyl
CF ₃	O-acyl	Cl	O	6-Methylcytosine	Br	O-acyl
CF ₃	O-acyl	Cl	O	8-Methyladenine	Br	O-acyl
CF ₃	O-acyl	Cl	O	8-Methylhypoxanthine	Br	O-acyl
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	Br	O-acyl
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	Br	O-acyl
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	Br	O-acyl
CF ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	Br	O-acyl
CF ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-acyl	Cl	O	6-Methylthymine	Br	OH
CF ₃	O-acyl	Cl	O	6-Methyluracil	Br	OH
CF ₃	O-acyl	Cl	O	8-Methylguanine	Br	OH
CF ₃	O-acyl	Cl	O	6-Methylcytosine	Br	OH
CF ₃	O-acyl	Cl	O	8-Methyladenine	Br	OH
CF ₃	O-acyl	Cl	O	8-Methylhypoxanthine	Br	OH
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	Br	OH
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	Br	OH
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	Br	OH
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	Br	OH
CF ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	Br	OH
CF ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	Br	OH
CF ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	Br	OH
CF ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	Br	OH
CF ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	Br	OH
CF ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	OH
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	OH
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Br	OH
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methyladenine	Br	OH
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Br	OH
CF ₃	O-acyl	Cl	O	6-Methylthymine	Cl	H
CF ₃	O-acyl	Cl	O	6-Methyluracil	Cl	H
CF ₃	O-acyl	Cl	O	8-Methylguanine	Cl	H
CF ₃	O-acyl	Cl	O	6-Methylcytosine	Cl	H
CF ₃	O-acyl	Cl	O	8-Methyladenine	Cl	H
CF ₃	O-acyl	Cl	O	8-Methylhypoxanthine	Cl	H
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	Cl	H
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	Cl	H
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	Cl	H
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	Cl	H
CF ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	Cl	H
CF ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	Cl	H

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	Cl	H
CF ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	Cl	H
CF ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	Cl	H
CF ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	H
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	H
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Cl	H
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methyladenine	Cl	H
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Cl	H
CF ₃	O-acyl	Cl	O	6-Methylthymine	Cl	O-amino acid
CF ₃	O-acyl	Cl	O	6-Methyluracil	Cl	O-amino acid
CF ₃	O-acyl	Cl	O	8-Methylguanine	Cl	O-amino acid
CF ₃	O-acyl	Cl	O	6-Methylcytosine	Cl	O-amino acid
CF ₃	O-acyl	Cl	O	8-Methyladenine	Cl	O-amino acid
CF ₃	O-acyl	Cl	O	8-Methylhypoxanthine	Cl	O-amino acid
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CF ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CF ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	O-acyl	Cl	O	6-Methylthymine	Cl	O-acyl
CF ₃	O-acyl	Cl	O	6-Methyluracil	Cl	O-acyl
CF ₃	O-acyl	Cl	O	8-Methylguanine	Cl	O-acyl
CF ₃	O-acyl	Cl	O	6-Methylcytosine	Cl	O-acyl
CF ₃	O-acyl	Cl	O	8-Methyladenine	Cl	O-acyl
CF ₃	O-acyl	Cl	O	8-Methylhypoxanthine	Cl	O-acyl
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	Cl	O-acyl
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	Cl	O-acyl
CF ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CF ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-acyl	Cl	O	6-Methylthymine	Cl	OH
CF ₃	O-acyl	Cl	O	6-Methyluracil	Cl	OH
CF ₃	O-acyl	Cl	O	8-Methylguanine	Cl	OH
CF ₃	O-acyl	Cl	O	6-Methylcytosine	Cl	OH
CF ₃	O-acyl	Cl	O	8-Methyladenine	Cl	OH
CF ₃	O-acyl	Cl	O	8-Methylhypoxanthine	Cl	OH
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	Cl	OH
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	Cl	OH
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	Cl	OH
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	Cl	OH
CF ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	Cl	OH
CF ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	Cl	OH
CF ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	Cl	OH
CF ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	Cl	OH
CF ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	Cl	OH
CF ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	OH
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	OH
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Cl	OH
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methyladenine	Cl	OH
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methylhypoxanthine	Cl	OH
CF ₃	O-acyl	Cl	O	6-Methylthymine	H	H
CF ₃	O-acyl	Cl	O	6-Methyluracil	H	H
CF ₃	O-acyl	Cl	O	8-Methylguanine	H	H
CF ₃	O-acyl	Cl	O	6-Methylcytosine	H	H
CF ₃	O-acyl	Cl	O	8-Methyladenine	H	H

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	Cl	O	8-Methylhypoxanthine	H	H
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	H	H
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	H	H
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	H	H
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	H	H
CF ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	H	H
CF ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	H	H
CF ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	H	H
CF ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	H	H
CF ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	H	H
CF ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	H
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	H	H
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	H	H
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methyladenine	H	H
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methylhypoxanthine	H	H
CF ₃	O-acyl	Cl	O	6-Methylthymine	H	O-amino acid
CF ₃	O-acyl	Cl	O	6-Methyluracil	H	O-amino acid
CF ₃	O-acyl	Cl	O	8-Methylguanine	H	O-amino acid
CF ₃	O-acyl	Cl	O	6-Methylcytosine	H	O-amino acid
CF ₃	O-acyl	Cl	O	8-Methyladenine	H	O-amino acid
CF ₃	O-acyl	Cl	O	8-Methylhypoxanthine	H	O-amino acid
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	H	O-amino acid
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	H	O-amino acid
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	H	O-amino acid
CF ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	H	O-amino acid
CF ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	H	O-amino acid
CF ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	H	O-amino acid
CF ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-amino acid
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methylhypoxanthine	H	O-amino acid
CF ₃	O-acyl	Cl	O	6-Methylthymine	H	O-acyl
CF ₃	O-acyl	Cl	O	6-Methyluracil	H	O-acyl
CF ₃	O-acyl	Cl	O	8-Methylguanine	H	O-acyl
CF ₃	O-acyl	Cl	O	6-Methylcytosine	H	O-acyl
CF ₃	O-acyl	Cl	O	8-Methyladenine	H	O-acyl
CF ₃	O-acyl	Cl	O	8-Methylhypoxanthine	H	O-acyl
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	H	O-acyl
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	H	O-acyl
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	H	O-acyl
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	H	O-acyl
CF ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	H	O-acyl
CF ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	H	O-acyl
CF ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	H	O-acyl
CF ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	H	O-acyl
CF ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	H	O-acyl
CF ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-acyl
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-acyl
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	H	O-acyl
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methyladenine	H	O-acyl
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methylhypoxanthine	H	O-acyl
CF ₃	O-acyl	Cl	O	6-Methylthymine	H	OH
CF ₃	O-acyl	Cl	O	6-Methyluracil	H	OH
CF ₃	O-acyl	Cl	O	8-Methylguanine	H	OH
CF ₃	O-acyl	Cl	O	6-Methylcytosine	H	OH
CF ₃	O-acyl	Cl	O	8-Methyladenine	H	OH
CF ₃	O-acyl	Cl	O	8-Methylhypoxanthine	H	OH
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	H	OH
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	H	OH
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	H	OH
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	H	OH
CF ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	H	OH
CF ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	H	OH
CF ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	H	OH
CF ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	H	OH
CF ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	H	OH
CF ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	OH
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	H	OH
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	H	OH
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methyladenine	H	OH

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methylhypoxanthine	H	OH
CF ₃	O-acyl	Cl	O	6-Methylthymine	OH	H
CF ₃	O-acyl	Cl	O	6-Methyluracil	OH	H
CF ₃	O-acyl	Cl	O	8-Methylguanine	OH	H
CF ₃	O-acyl	Cl	O	6-Methylcytosine	OH	H
CF ₃	O-acyl	Cl	O	8-Methyladenine	OH	H
CF ₃	O-acyl	Cl	O	8-Methylhypoxanthine	OH	H
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	OH	H
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	OH	H
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	OH	H
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	OH	H
CF ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	OH	H
CF ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	OH	H
CF ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	OH	H
CF ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	OH	H
CF ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	OH	H
CF ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	OH	H
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	OH	H
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	OH	H
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methyladenine	OH	H
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methylhypoxanthine	OH	H
CF ₃	O-acyl	H	O	6-Methylthymine	F	H
CF ₃	O-acyl	H	O	6-Methyluracil	F	H
CF ₃	O-acyl	H	O	8-Methylguanine	F	H
CF ₃	O-acyl	H	O	6-Methylcytosine	F	H
CF ₃	O-acyl	H	O	8-Methyladenine	F	H
CF ₃	O-acyl	H	O	8-Methylhypoxanthine	F	H
CF ₃	O-acyl	H	O	5-Fluoro-6-Methyluracil	F	H
CF ₃	O-acyl	H	O	5-Fluoro-6-Methylcytosine	F	H
CF ₃	O-acyl	H	O	2-Fluoro-8-methyladenine	F	H
CF ₃	O-acyl	H	O	2-Fluoro-8-methylhypoxanthine	F	H
CF ₃	O-acyl	H	O	2-Amino-8-methyladenine	F	H
CF ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	F	H
CF ₃	O-acyl	H	O	2-N-acetyl-8-methylguanine	F	H
CF ₃	O-acyl	H	O	4-N-acetyl-8-methylcytosine	F	H
CF ₃	O-acyl	H	O	6-N-acetyl-8-methyladenine	F	H
CF ₃	O-acyl	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	H
CF ₃	O-acyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	F	H
CF ₃	O-acyl	H	O	6-N-acetyl-2-amino-8-methyladenine	F	H
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methyladenine	F	H
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methylhypoxanthine	F	H
CF ₃	O-acyl	H	O	6-Methylthymine	F	O-amino acid
CF ₃	O-acyl	H	O	6-Methyluracil	F	O-amino acid
CF ₃	O-acyl	H	O	8-Methylguanine	F	O-amino acid
CF ₃	O-acyl	H	O	6-Methylcytosine	F	O-amino acid
CF ₃	O-acyl	H	O	8-Methyladenine	F	O-amino acid
CF ₃	O-acyl	H	O	8-Methylhypoxanthine	F	O-amino acid
CF ₃	O-acyl	H	O	5-Fluoro-6-Methyluracil	F	O-amino acid
CF ₃	O-acyl	H	O	5-Fluoro-6-Methylcytosine	F	O-amino acid
CF ₃	O-acyl	H	O	2-Fluoro-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	H	O	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-acyl	H	O	2-Amino-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-acyl	H	O	2-N-acetyl-8-methylguanine	F	O-amino acid
CF ₃	O-acyl	H	O	4-N-acetyl-8-methylcytosine	F	O-amino acid
CF ₃	O-acyl	H	O	6-N-acetyl-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CF ₃	O-acyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	H	O	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-acyl	H	O	6-Methylthymine	F	O-acyl
CF ₃	O-acyl	H	O	6-Methyluracil	F	O-acyl
CF ₃	O-acyl	H	O	8-Methylguanine	F	O-acyl
CF ₃	O-acyl	H	O	6-Methylcytosine	F	O-acyl
CF ₃	O-acyl	H	O	8-Methyladenine	F	O-acyl
CF ₃	O-acyl	H	O	8-Methylhypoxanthine	F	O-acyl
CF ₃	O-acyl	H	O	5-Fluoro-6-Methyluracil	F	O-acyl
CF ₃	O-acyl	H	O	5-Fluoro-6-Methylcytosine	F	O-acyl
CF ₃	O-acyl	H	O	2-Fluoro-8-methyladenine	F	O-acyl
CF ₃	O-acyl	H	O	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CF ₃	O-acyl	H	O	2-Amino-8-methyladenine	F	O-acyl
CF ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	F	O-acyl

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	H	O	2-N-acetyl-8-methylguanine	F	O-acyl
CF ₃	O-acyl	H	O	4-N-acetyl-8-methylcytosine	F	O-acyl
CF ₃	O-acyl	H	O	6-N-acetyl-8-methyladenine	F	O-acyl
CF ₃	O-acyl	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CF ₃	O-acyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CF ₃	O-acyl	H	O	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methyladenine	F	O-acyl
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methylhypoxanthine	F	O-acyl
CF ₃	O-acyl	H	O	6-Methylthymine	F	OH
CF ₃	O-acyl	H	O	6-Methyluracil	F	OH
CF ₃	O-acyl	H	O	8-Methylguanine	F	OH
CF ₃	O-acyl	H	O	6-Methylcytosine	F	OH
CF ₃	O-acyl	H	O	8-Methyladenine	F	OH
CF ₃	O-acyl	H	O	8-Methylhypoxanthine	F	OH
CF ₃	O-acyl	H	O	5-Fluoro-6-Methyluracil	F	OH
CF ₃	O-acyl	H	O	5-Fluoro-6-Methylcytosine	F	OH
CF ₃	O-acyl	H	O	2-Fluoro-8-methyladenine	F	OH
CF ₃	O-acyl	H	O	2-Fluoro-8-methylhypoxanthine	F	OH
CF ₃	O-acyl	H	O	2-Amino-8-methyladenine	F	OH
CF ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	F	OH
CF ₃	O-acyl	H	O	2-N-acetyl-8-methylguanine	F	OH
CF ₃	O-acyl	H	O	4-N-acetyl-8-methylcytosine	F	OH
CF ₃	O-acyl	H	O	6-N-acetyl-8-methyladenine	F	OH
CF ₃	O-acyl	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	OH
CF ₃	O-acyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	F	OH
CF ₃	O-acyl	H	O	6-N-acetyl-2-amino-8-methyladenine	F	OH
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methyladenine	F	OH
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methylhypoxanthine	F	OH
CF ₃	O-acyl	H	O	6-Methylthymine	Br	H
CF ₃	O-acyl	H	O	6-Methyluracil	Br	H
CF ₃	O-acyl	H	O	8-Methylguanine	Br	H
CF ₃	O-acyl	H	O	6-Methylcytosine	Br	H
CF ₃	O-acyl	H	O	8-Methyladenine	Br	H
CF ₃	O-acyl	H	O	8-Methylhypoxanthine	Br	H
CF ₃	O-acyl	H	O	5-Fluoro-6-Methyluracil	Br	H
CF ₃	O-acyl	H	O	5-Fluoro-6-Methylcytosine	Br	H
CF ₃	O-acyl	H	O	2-Fluoro-8-methyladenine	Br	H
CF ₃	O-acyl	H	O	2-Fluoro-8-methylhypoxanthine	Br	H
CF ₃	O-acyl	H	O	2-Amino-8-methyladenine	Br	H
CF ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	Br	H
CF ₃	O-acyl	H	O	2-N-acetyl-8-methylguanine	Br	H
CF ₃	O-acyl	H	O	4-N-acetyl-8-methylcytosine	Br	H
CF ₃	O-acyl	H	O	6-N-acetyl-8-methyladenine	Br	H
CF ₃	O-acyl	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	H
CF ₃	O-acyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	H
CF ₃	O-acyl	H	O	6-N-acetyl-2-amino-8-methyladenine	Br	H
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methyladenine	Br	H
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methylhypoxanthine	Br	H
CF ₃	O-acyl	H	O	6-Methylthymine	Br	O-amino acid
CF ₃	O-acyl	H	O	6-Methyluracil	Br	O-amino acid
CF ₃	O-acyl	H	O	8-Methylguanine	Br	O-amino acid
CF ₃	O-acyl	H	O	6-Methylcytosine	Br	O-amino acid
CF ₃	O-acyl	H	O	8-Methyladenine	Br	O-amino acid
CF ₃	O-acyl	H	O	8-Methylhypoxanthine	Br	O-amino acid
CF ₃	O-acyl	H	O	5-Fluoro-6-Methyluracil	Br	O-amino acid
CF ₃	O-acyl	H	O	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CF ₃	O-acyl	H	O	2-Fluoro-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	H	O	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-acyl	H	O	2-Amino-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-acyl	H	O	2-N-acetyl-8-methylguanine	Br	O-amino acid
CF ₃	O-acyl	H	O	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CF ₃	O-acyl	H	O	6-N-acetyl-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CF ₃	O-acyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	H	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-acyl	H	O	6-Methylthymine	Br	O-acyl
CF ₃	O-acyl	H	O	6-Methyluracil	Br	O-acyl
CF ₃	O-acyl	H	O	8-Methylguanine	Br	O-acyl
CF ₃	O-acyl	H	O	6-Methylcytosine	Br	O-acyl
CF ₃	O-acyl	H	O	8-Methyladenine	Br	O-acyl

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	H	O	8-Methylhypoxanthine	Br	O-acyl
CF ₃	O-acyl	H	O	5-Fluoro-6-Methyluracil	Br	O-acyl
CF ₃	O-acyl	H	O	5-Fluoro-6-Methylcytosine	Br	O-acyl
CF ₃	O-acyl	H	O	2-Fluoro-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	H	O	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-acyl	H	O	2-Amino-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-acyl	H	O	2-N-acetyl-8-methylguanine	Br	O-acyl
CF ₃	O-acyl	H	O	4-N-acetyl-8-methylcytosine	Br	O-acyl
CF ₃	O-acyl	H	O	6-N-acetyl-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CF ₃	O-acyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	H	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-acyl	H	O	6-Methylthymine	Br	OH
CF ₃	O-acyl	H	O	6-Methyluracil	Br	OH
CF ₃	O-acyl	H	O	8-Methylguanine	Br	OH
CF ₃	O-acyl	H	O	6-Methylcytosine	Br	OH
CF ₃	O-acyl	H	O	8-Methyladenine	Br	OH
CF ₃	O-acyl	H	O	8-Methylhypoxanthine	Br	OH
CF ₃	O-acyl	H	O	5-Fluoro-6-Methyluracil	Br	OH
CF ₃	O-acyl	H	O	5-Fluoro-6-Methylcytosine	Br	OH
CF ₃	O-acyl	H	O	2-Fluoro-8-methyladenine	Br	OH
CF ₃	O-acyl	H	O	2-Fluoro-8-methylhypoxanthine	Br	OH
CF ₃	O-acyl	H	O	2-Amino-8-methyladenine	Br	OH
CF ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	Br	OH
CF ₃	O-acyl	H	O	2-N-acetyl-8-methylguanine	Br	OH
CF ₃	O-acyl	H	O	4-N-acetyl-8-methylcytosine	Br	OH
CF ₃	O-acyl	H	O	6-N-acetyl-8-methyladenine	Br	OH
CF ₃	O-acyl	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	OH
CF ₃	O-acyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	OH
CF ₃	O-acyl	H	O	6-N-acetyl-2-amino-8-methyladenine	Br	OH
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methyladenine	Br	OH
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methylhypoxanthine	Br	OH
CF ₃	O-acyl	H	O	6-Methylthymine	Cl	H
CF ₃	O-acyl	H	O	6-Methyluracil	Cl	H
CF ₃	O-acyl	H	O	8-Methylguanine	Cl	H
CF ₃	O-acyl	H	O	6-Methylcytosine	Cl	H
CF ₃	O-acyl	H	O	8-Methyladenine	Cl	H
CF ₃	O-acyl	H	O	8-Methylhypoxanthine	Cl	H
CF ₃	O-acyl	H	O	5-Fluoro-6-Methyluracil	Cl	H
CF ₃	O-acyl	H	O	5-Fluoro-6-Methylcytosine	Cl	H
CF ₃	O-acyl	H	O	2-Fluoro-8-methyladenine	Cl	H
CF ₃	O-acyl	H	O	2-Fluoro-8-methylhypoxanthine	Cl	H
CF ₃	O-acyl	H	O	2-Amino-8-methyladenine	Cl	H
CF ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	Cl	H
CF ₃	O-acyl	H	O	2-N-acetyl-8-methylguanine	Cl	H
CF ₃	O-acyl	H	O	4-N-acetyl-8-methylcytosine	Cl	H
CF ₃	O-acyl	H	O	6-N-acetyl-8-methyladenine	Cl	H
CF ₃	O-acyl	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	H
CF ₃	O-acyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	H
CF ₃	O-acyl	H	O	6-N-acetyl-2-amino-8-methyladenine	Cl	H
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methyladenine	Cl	H
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methylhypoxanthine	Cl	H
CF ₃	O-acyl	H	O	6-Methylthymine	Cl	O-amino acid
CF ₃	O-acyl	H	O	6-Methyluracil	Cl	O-amino acid
CF ₃	O-acyl	H	O	8-Methylguanine	Cl	O-amino acid
CF ₃	O-acyl	H	O	6-Methylcytosine	Cl	O-amino acid
CF ₃	O-acyl	H	O	8-Methyladenine	Cl	O-amino acid
CF ₃	O-acyl	H	O	8-Methylhypoxanthine	Cl	O-amino acid
CF ₃	O-acyl	H	O	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CF ₃	O-acyl	H	O	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CF ₃	O-acyl	H	O	2-Fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	H	O	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	O-acyl	H	O	2-Amino-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	O-acyl	H	O	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CF ₃	O-acyl	H	O	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CF ₃	O-acyl	H	O	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CF ₃	O-acyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	H	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-amino acid

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	O-acyl	H	O	6-Methylthymine	Cl	O-acyl
CF ₃	O-acyl	H	O	6-Methyluracil	Cl	O-acyl
CF ₃	O-acyl	H	O	8-Methylguanine	Cl	O-acyl
CF ₃	O-acyl	H	O	6-Methylcytosine	Cl	O-acyl
CF ₃	O-acyl	H	O	8-Methyladenine	Cl	O-acyl
CF ₃	O-acyl	H	O	8-Methylhypoxanthine	Cl	O-acyl
CF ₃	O-acyl	H	O	5-Fluoro-6-Methyluracil	Cl	O-acyl
CF ₃	O-acyl	H	O	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CF ₃	O-acyl	H	O	2-Fluoro-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	H	O	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-acyl	H	O	2-Amino-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-acyl	H	O	2-N-acetyl-8-methylguanine	Cl	O-acyl
CF ₃	O-acyl	H	O	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CF ₃	O-acyl	H	O	6-N-acetyl-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CF ₃	O-acyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	H	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-acyl	H	O	6-Methylthymine	Cl	OH
CF ₃	O-acyl	H	O	6-Methyluracil	Cl	OH
CF ₃	O-acyl	H	O	8-Methylguanine	Cl	OH
CF ₃	O-acyl	H	O	6-Methylcytosine	Cl	OH
CF ₃	O-acyl	H	O	8-Methyladenine	Cl	OH
CF ₃	O-acyl	H	O	8-Methylhypoxanthine	Cl	OH
CF ₃	O-acyl	H	O	5-Fluoro-6-Methyluracil	Cl	OH
CF ₃	O-acyl	H	O	5-Fluoro-6-Methylcytosine	Cl	OH
CF ₃	O-acyl	H	O	2-Fluoro-8-methyladenine	Cl	OH
CF ₃	O-acyl	H	O	2-Fluoro-8-methylhypoxanthine	Cl	OH
CF ₃	O-acyl	H	O	2-Amino-8-methyladenine	Cl	OH
CF ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	Cl	OH
CF ₃	O-acyl	H	O	2-N-acetyl-8-methylguanine	Cl	OH
CF ₃	O-acyl	H	O	4-N-acetyl-8-methylcytosine	Cl	OH
CF ₃	O-acyl	H	O	6-N-acetyl-8-methyladenine	Cl	OH
CF ₃	O-acyl	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	OH
CF ₃	O-acyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	OH
CF ₃	O-acyl	H	O	6-N-acetyl-2-amino-8-methyladenine	Cl	OH
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methyladenine	Cl	OH
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methylhypoxanthine	Cl	OH
CF ₃	O-acyl	H	O	6-Methylthymine	H	H
CF ₃	O-acyl	H	O	6-Methyluracil	H	H
CF ₃	O-acyl	H	O	8-Methylguanine	H	H
CF ₃	O-acyl	H	O	6-Methylcytosine	H	H
CF ₃	O-acyl	H	O	8-Methyladenine	H	H
CF ₃	O-acyl	H	O	8-Methylhypoxanthine	H	H
CF ₃	O-acyl	H	O	5-Fluoro-6-Methyluracil	H	H
CF ₃	O-acyl	H	O	5-Fluoro-6-Methylcytosine	H	H
CF ₃	O-acyl	H	O	2-Fluoro-8-methyladenine	H	H
CF ₃	O-acyl	H	O	2-Fluoro-8-methylhypoxanthine	H	H
CF ₃	O-acyl	H	O	2-Amino-8-methyladenine	H	H
CF ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	H	H
CF ₃	O-acyl	H	O	2-N-acetyl-8-methylguanine	H	H
CF ₃	O-acyl	H	O	4-N-acetyl-8-methylcytosine	H	H
CF ₃	O-acyl	H	O	6-N-acetyl-8-methyladenine	H	H
CF ₃	O-acyl	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	H
CF ₃	O-acyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	H	H
CF ₃	O-acyl	H	O	6-N-acetyl-2-amino-8-methyladenine	H	H
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methyladenine	H	H
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methylhypoxanthine	H	H
CF ₃	O-acyl	H	O	6-Methylthymine	H	O-amino acid
CF ₃	O-acyl	H	O	6-Methyluracil	H	O-amino acid
CF ₃	O-acyl	H	O	8-Methylguanine	H	O-amino acid
CF ₃	O-acyl	H	O	6-Methylcytosine	H	O-amino acid
CF ₃	O-acyl	H	O	8-Methyladenine	H	O-amino acid
CF ₃	O-acyl	H	O	8-Methylhypoxanthine	H	O-amino acid
CF ₃	O-acyl	H	O	5-Fluoro-6-Methyluracil	H	O-amino acid
CF ₃	O-acyl	H	O	5-Fluoro-6-Methylcytosine	H	O-amino acid
CF ₃	O-acyl	H	O	2-Fluoro-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	H	O	2-Fluoro-8-methylhypoxanthine	H	O-amino acid
CF ₃	O-acyl	H	O	2-Amino-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	H	O-amino acid

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	H	O	2-N-acetyl-8-methylguanine	H	O-amino acid
CF ₃	O-acyl	H	O	4-N-acetyl-8-methylcytosine	H	O-amino acid
CF ₃	O-acyl	H	O	6-N-acetyl-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-amino acid
CF ₃	O-acyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	H	O	6-N-acetyl-2-amino-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methylhypoxanthine	H	O-amino acid
CF ₃	O-acyl	H	O	6-Methylthymine	H	O-acyl
CF ₃	O-acyl	H	O	6-Methyluracil	H	O-acyl
CF ₃	O-acyl	H	O	8-Methylguanine	H	O-acyl
CF ₃	O-acyl	H	O	6-Methylcytosine	H	O-acyl
CF ₃	O-acyl	H	O	8-Methyladenine	H	O-acyl
CF ₃	O-acyl	H	O	8-Methylhypoxanthine	H	O-acyl
CF ₃	O-acyl	H	O	5-Fluoro-6-Methyluracil	H	O-acyl
CF ₃	O-acyl	H	O	5-Fluoro-6-Methylcytosine	H	O-acyl
CF ₃	O-acyl	H	O	2-Fluoro-8-methyladenine	H	O-acyl
CF ₃	O-acyl	H	O	2-Fluoro-8-methylhypoxanthine	H	O-acyl
CF ₃	O-acyl	H	O	2-Amino-8-methyladenine	H	O-acyl
CF ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	H	O-acyl
CF ₃	O-acyl	H	O	2-N-acetyl-8-methylguanine	H	O-acyl
CF ₃	O-acyl	H	O	4-N-acetyl-8-methylcytosine	H	O-acyl
CF ₃	O-acyl	H	O	6-N-acetyl-8-methyladenine	H	O-acyl
CF ₃	O-acyl	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-acyl
CF ₃	O-acyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-acyl
CF ₃	O-acyl	H	O	6-N-acetyl-2-amino-8-methyladenine	H	O-acyl
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methyladenine	H	O-acyl
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methylhypoxanthine	H	O-acyl
CF ₃	O-acyl	H	O	6-Methylthymine	H	OH
CF ₃	O-acyl	H	O	6-Methyluracil	H	OH
CF ₃	O-acyl	H	O	8-Methylguanine	H	OH
CF ₃	O-acyl	H	O	6-Methylcytosine	H	OH
CF ₃	O-acyl	H	O	8-Methyladenine	H	OH
CF ₃	O-acyl	H	O	8-Methylhypoxanthine	H	OH
CF ₃	O-acyl	H	O	5-Fluoro-6-Methyluracil	H	OH
CF ₃	O-acyl	H	O	5-Fluoro-6-Methylcytosine	H	OH
CF ₃	O-acyl	H	O	2-Fluoro-8-methyladenine	H	OH
CF ₃	O-acyl	H	O	2-Fluoro-8-methylhypoxanthine	H	OH
CF ₃	O-acyl	H	O	2-Amino-8-methyladenine	H	OH
CF ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	H	OH
CF ₃	O-acyl	H	O	2-N-acetyl-8-methylguanine	H	OH
CF ₃	O-acyl	H	O	4-N-acetyl-8-methylcytosine	H	OH
CF ₃	O-acyl	H	O	6-N-acetyl-8-methyladenine	H	OH
CF ₃	O-acyl	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	OH
CF ₃	O-acyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	H	OH
CF ₃	O-acyl	H	O	6-N-acetyl-2-amino-8-methyladenine	H	OH
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methyladenine	H	OH
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methylhypoxanthine	H	OH
CF ₃	O-acyl	H	O	6-Methylthymine	OH	H
CF ₃	O-acyl	H	O	6-Methyluracil	OH	H
CF ₃	O-acyl	H	O	8-Methylguanine	OH	H
CF ₃	O-acyl	H	O	6-Methylcytosine	OH	H
CF ₃	O-acyl	H	O	8-Methyladenine	OH	H
CF ₃	O-acyl	H	O	8-Methylhypoxanthine	OH	H
CF ₃	O-acyl	H	O	5-Fluoro-6-Methyluracil	OH	H
CF ₃	O-acyl	H	O	5-Fluoro-6-Methylcytosine	OH	H
CF ₃	O-acyl	H	O	2-Fluoro-8-methyladenine	OH	H
CF ₃	O-acyl	H	O	2-Fluoro-8-methylhypoxanthine	OH	H
CF ₃	O-acyl	H	O	2-Amino-8-methyladenine	OH	H
CF ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	OH	H
CF ₃	O-acyl	H	O	2-N-acetyl-8-methylguanine	OH	H
CF ₃	O-acyl	H	O	4-N-acetyl-8-methylcytosine	OH	H
CF ₃	O-acyl	H	O	6-N-acetyl-8-methyladenine	OH	H
CF ₃	O-acyl	H	O	4-N-acetyl-5-fluoro-8-methylcytosine	OH	H
CF ₃	O-acyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	OH	H
CF ₃	O-acyl	H	O	6-N-acetyl-2-amino-8-methyladenine	OH	H
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methyladenine	OH	H
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methylhypoxanthine	OH	H
CF ₃	O-amino acid	F	O	6-Methylthymine	F	H
CF ₃	O-amino acid	F	O	6-Methyluracil	F	H
CF ₃	O-amino acid	F	O	8-Methylguanine	F	H
CF ₃	O-amino acid	F	O	6-Methylcytosine	F	H
CF ₃	O-amino acid	F	O	8-Methyladenine	F	H

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-amino acid	F	O	8-Methylhypoxanthine	F	H
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	F	H
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	F	H
CF ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	F	H
CF ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	F	H
CF ₃	O-amino acid	F	O	2-Amino-8-methyladenine	F	H
CF ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	F	H
CF ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	F	H
CF ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	F	H
CF ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	F	H
CF ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	H
CF ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	F	H
CF ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	F	H
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	F	H
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	F	H
CF ₃	O-amino acid	F	O	6-Methylthymine	F	O-amino acid
CF ₃	O-amino acid	F	O	6-Methyluracil	F	O-amino acid
CF ₃	O-amino acid	F	O	8-Methylguanine	F	O-amino acid
CF ₃	O-amino acid	F	O	6-Methylcytosine	F	O-amino acid
CF ₃	O-amino acid	F	O	8-Methyladenine	F	O-amino acid
CF ₃	O-amino acid	F	O	8-Methylhypoxanthine	F	O-amino acid
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	F	O-amino acid
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	F	O-amino acid
CF ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-amino acid	F	O	2-Amino-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	F	O-amino acid
CF ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	F	O-amino acid
CF ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CF ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-amino acid	F	O	6-Methylthymine	F	O-acyl
CF ₃	O-amino acid	F	O	6-Methyluracil	F	O-acyl
CF ₃	O-amino acid	F	O	8-Methylguanine	F	O-acyl
CF ₃	O-amino acid	F	O	6-Methylcytosine	F	O-acyl
CF ₃	O-amino acid	F	O	8-Methyladenine	F	O-acyl
CF ₃	O-amino acid	F	O	8-Methylhypoxanthine	F	O-acyl
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	F	O-acyl
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	F	O-acyl
CF ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CF ₃	O-amino acid	F	O	2-Amino-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	F	O-acyl
CF ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	F	O-acyl
CF ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	F	O-acyl
CF ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CF ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	F	O-acyl
CF ₃	O-amino acid	F	O	6-Methylthymine	F	OH
CF ₃	O-amino acid	F	O	6-Methyluracil	F	OH
CF ₃	O-amino acid	F	O	8-Methylguanine	F	OH
CF ₃	O-amino acid	F	O	6-Methylcytosine	F	OH
CF ₃	O-amino acid	F	O	8-Methyladenine	F	OH
CF ₃	O-amino acid	F	O	8-Methylhypoxanthine	F	OH
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	F	OH
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	F	OH
CF ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	F	OH
CF ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	F	OH
CF ₃	O-amino acid	F	O	2-Amino-8-methyladenine	F	OH
CF ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	F	OH
CF ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	F	OH
CF ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	F	OH
CF ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	F	OH
CF ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	OH
CF ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	F	OH
CF ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	F	OH
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	F	OH

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	F	OH
CF ₃	O-amino acid	F	O	6-Methylthymine	Br	H
CF ₃	O-amino acid	F	O	6-Methyluracil	Br	H
CF ₃	O-amino acid	F	O	8-Methylguanine	Br	H
CF ₃	O-amino acid	F	O	6-Methylcytosine	Br	H
CF ₃	O-amino acid	F	O	8-Methyladenine	Br	H
CF ₃	O-amino acid	F	O	8-Methylhypoxanthine	Br	H
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	Br	H
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	Br	H
CF ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	Br	H
CF ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	Br	H
CF ₃	O-amino acid	F	O	2-Amino-8-methyladenine	Br	H
CF ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	Br	H
CF ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	Br	H
CF ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	Br	H
CF ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	Br	H
CF ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	H
CF ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	H
CF ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	Br	H
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	Br	H
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	Br	H
CF ₃	O-amino acid	F	O	6-Methylthymine	Br	O-amino acid
CF ₃	O-amino acid	F	O	6-Methyluracil	Br	O-amino acid
CF ₃	O-amino acid	F	O	8-Methylguanine	Br	O-amino acid
CF ₃	O-amino acid	F	O	6-Methylcytosine	Br	O-amino acid
CF ₃	O-amino acid	F	O	8-Methyladenine	Br	O-amino acid
CF ₃	O-amino acid	F	O	8-Methylhypoxanthine	Br	O-amino acid
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	Br	O-amino acid
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CF ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-amino acid	F	O	2-Amino-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	Br	O-amino acid
CF ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CF ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CF ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-amino acid	F	O	6-Methylthymine	Br	O-acyl
CF ₃	O-amino acid	F	O	6-Methyluracil	Br	O-acyl
CF ₃	O-amino acid	F	O	8-Methylguanine	Br	O-acyl
CF ₃	O-amino acid	F	O	6-Methylcytosine	Br	O-acyl
CF ₃	O-amino acid	F	O	8-Methyladenine	Br	O-acyl
CF ₃	O-amino acid	F	O	8-Methylhypoxanthine	Br	O-acyl
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	Br	O-acyl
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	Br	O-acyl
CF ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-amino acid	F	O	2-Amino-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	Br	O-acyl
CF ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	Br	O-acyl
CF ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CF ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-amino acid	F	O	6-Methylthymine	Br	OH
CF ₃	O-amino acid	F	O	6-Methyluracil	Br	OH
CF ₃	O-amino acid	F	O	8-Methylguanine	Br	OH
CF ₃	O-amino acid	F	O	6-Methylcytosine	Br	OH
CF ₃	O-amino acid	F	O	8-Methyladenine	Br	OH
CF ₃	O-amino acid	F	O	8-Methylhypoxanthine	Br	OH
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	Br	OH
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	Br	OH
CF ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	Br	OH
CF ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	Br	OH
CF ₃	O-amino acid	F	O	2-Amino-8-methyladenine	Br	OH
CF ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	Br	OH

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	Br	OH
CF ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	Br	OH
CF ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	Br	OH
CF ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	OH
CF ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	OH
CF ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	Br	OH
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	Br	OH
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	Br	OH
CF ₃	O-amino acid	F	O	6-Methylthymine	Cl	H
CF ₃	O-amino acid	F	O	6-Methyluracil	Cl	H
CF ₃	O-amino acid	F	O	8-Methylguanine	Cl	H
CF ₃	O-amino acid	F	O	6-Methylcytosine	Cl	H
CF ₃	O-amino acid	F	O	8-Methyladenine	Cl	H
CF ₃	O-amino acid	F	O	8-Methylhypoxanthine	Cl	H
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	Cl	H
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	Cl	H
CF ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	Cl	H
CF ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	Cl	H
CF ₃	O-amino acid	F	O	2-Amino-8-methyladenine	Cl	H
CF ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	Cl	H
CF ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	Cl	H
CF ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	Cl	H
CF ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	Cl	H
CF ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	H
CF ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	H
CF ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	Cl	H
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	Cl	H
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	Cl	H
CF ₃	O-amino acid	F	O	6-Methylthymine	Cl	O-amino acid
CF ₃	O-amino acid	F	O	6-Methyluracil	Cl	O-amino acid
CF ₃	O-amino acid	F	O	8-Methylguanine	Cl	O-amino acid
CF ₃	O-amino acid	F	O	6-Methylcytosine	Cl	O-amino acid
CF ₃	O-amino acid	F	O	8-Methyladenine	Cl	O-amino acid
CF ₃	O-amino acid	F	O	8-Methylhypoxanthine	Cl	O-amino acid
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CF ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	O-amino acid	F	O	2-Amino-8-methyladenine	Cl	O-amino acid
CF ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CF ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CF ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CF ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CF ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	O-amino acid	F	O	6-Methylthymine	Cl	O-acyl
CF ₃	O-amino acid	F	O	6-Methyluracil	Cl	O-acyl
CF ₃	O-amino acid	F	O	8-Methylguanine	Cl	O-acyl
CF ₃	O-amino acid	F	O	6-Methylcytosine	Cl	O-acyl
CF ₃	O-amino acid	F	O	8-Methyladenine	Cl	O-acyl
CF ₃	O-amino acid	F	O	8-Methylhypoxanthine	Cl	O-acyl
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	Cl	O-acyl
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CF ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-amino acid	F	O	2-Amino-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	Cl	O-acyl
CF ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CF ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CF ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-amino acid	F	O	6-Methylthymine	Cl	OH
CF ₃	O-amino acid	F	O	6-Methyluracil	Cl	OH
CF ₃	O-amino acid	F	O	8-Methylguanine	Cl	OH
CF ₃	O-amino acid	F	O	6-Methylcytosine	Cl	OH
CF ₃	O-amino acid	F	O	8-Methyladenine	Cl	OH

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-amino acid	F	O	8-Methylhypoxanthine	Cl	OH
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	Cl	OH
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	Cl	OH
CF ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	Cl	OH
CF ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	Cl	OH
CF ₃	O-amino acid	F	O	2-Amino-8-methyladenine	Cl	OH
CF ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	Cl	OH
CF ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	Cl	OH
CF ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	Cl	OH
CF ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	Cl	OH
CF ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	OH
CF ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	OH
CF ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	Cl	OH
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	Cl	OH
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	Cl	OH
CF ₃	O-amino acid	F	O	6-Methylthymine	H	H
CF ₃	O-amino acid	F	O	6-Methyluracil	H	H
CF ₃	O-amino acid	F	O	8-Methylguanine	H	H
CF ₃	O-amino acid	F	O	6-Methylcytosine	H	H
CF ₃	O-amino acid	F	O	8-Methyladenine	H	H
CF ₃	O-amino acid	F	O	8-Methylhypoxanthine	H	H
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	H	H
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	H	H
CF ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	H	H
CF ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	H	H
CF ₃	O-amino acid	F	O	2-Amino-8-methyladenine	H	H
CF ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	H	H
CF ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	H	H
CF ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	H	H
CF ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	H	H
CF ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	H
CF ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	H	H
CF ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	H	H
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	H	H
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	H	H
CF ₃	O-amino acid	F	O	6-Methylthymine	H	O-amino acid
CF ₃	O-amino acid	F	O	6-Methyluracil	H	O-amino acid
CF ₃	O-amino acid	F	O	8-Methylguanine	H	O-amino acid
CF ₃	O-amino acid	F	O	6-Methylcytosine	H	O-amino acid
CF ₃	O-amino acid	F	O	8-Methyladenine	H	O-amino acid
CF ₃	O-amino acid	F	O	8-Methylhypoxanthine	H	O-amino acid
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	H	O-amino acid
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	H	O-amino acid
CF ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	H	O-amino acid
CF ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	H	O-amino acid
CF ₃	O-amino acid	F	O	2-Amino-8-methyladenine	H	O-amino acid
CF ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	H	O-amino acid
CF ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	H	O-amino acid
CF ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	H	O-amino acid
CF ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	H	O-amino acid
CF ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-amino acid
CF ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-amino acid
CF ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	H	O-amino acid
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	H	O-amino acid
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	H	O-amino acid
CF ₃	O-amino acid	F	O	6-Methylthymine	H	O-acyl
CF ₃	O-amino acid	F	O	6-Methyluracil	H	O-acyl
CF ₃	O-amino acid	F	O	8-Methylguanine	H	O-acyl
CF ₃	O-amino acid	F	O	6-Methylcytosine	H	O-acyl
CF ₃	O-amino acid	F	O	8-Methyladenine	H	O-acyl
CF ₃	O-amino acid	F	O	8-Methylhypoxanthine	H	O-acyl
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	H	O-acyl
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	H	O-acyl
CF ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	H	O-acyl
CF ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	H	O-acyl
CF ₃	O-amino acid	F	O	2-Amino-8-methyladenine	H	O-acyl
CF ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	H	O-acyl
CF ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	H	O-acyl
CF ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	H	O-acyl
CF ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	H	O-acyl
CF ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-acyl
CF ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-acyl
CF ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	H	O-acyl
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	H	O-acyl
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	H	O-acyl

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	H	O-acyl
CF ₃	O-amino acid	F	O	6-Methylthymine	H	OH
CF ₃	O-amino acid	F	O	6-Methyluracil	H	OH
CF ₃	O-amino acid	F	O	8-Methylguanine	H	OH
CF ₃	O-amino acid	F	O	6-Methylcytosine	H	OH
CF ₃	O-amino acid	F	O	8-Methyladenine	H	OH
CF ₃	O-amino acid	F	O	8-Methylhypoxanthine	H	OH
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	H	OH
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	H	OH
CF ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	H	OH
CF ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	H	OH
CF ₃	O-amino acid	F	O	2-Amino-8-methyladenine	H	OH
CF ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	H	OH
CF ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	H	OH
CF ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	H	OH
CF ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	H	OH
CF ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	OH
CF ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	H	OH
CF ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	H	OH
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	H	OH
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	H	OH
CF ₃	O-amino acid	F	O	6-Methylthymine	OH	H
CF ₃	O-amino acid	F	O	6-Methyluracil	OH	H
CF ₃	O-amino acid	F	O	8-Methylguanine	OH	H
CF ₃	O-amino acid	F	O	6-Methylcytosine	OH	H
CF ₃	O-amino acid	F	O	8-Methyladenine	OH	H
CF ₃	O-amino acid	F	O	8-Methylhypoxanthine	OH	H
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	OH	H
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	OH	H
CF ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	OH	H
CF ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	OH	H
CF ₃	O-amino acid	F	O	2-Amino-8-methyladenine	OH	H
CF ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	OH	H
CF ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	OH	H
CF ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	OH	H
CF ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	OH	H
CF ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	OH	H
CF ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	OH	H
CF ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	OH	H
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	OH	H
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methylhypoxanthine	OH	H
CF ₃	O-amino acid	Br	O	6-Methylthymine	F	H
CF ₃	O-amino acid	Br	O	6-Methyluracil	F	H
CF ₃	O-amino acid	Br	O	8-Methylguanine	F	H
CF ₃	O-amino acid	Br	O	6-Methylcytosine	F	H
CF ₃	O-amino acid	Br	O	8-Methyladenine	F	H
CF ₃	O-amino acid	Br	O	8-Methylhypoxanthine	F	H
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methyluracil	F	H
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methylcytosine	F	H
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methyladenine	F	H
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methylhypoxanthine	F	H
CF ₃	O-amino acid	Br	O	2-Amino-8-methyladenine	F	H
CF ₃	O-amino acid	Br	O	2-Amino-8-methylhypoxanthine	F	H
CF ₃	O-amino acid	Br	O	2-N-acetyl-8-methylguanine	F	H
CF ₃	O-amino acid	Br	O	4-N-acetyl-8-methylcytosine	F	H
CF ₃	O-amino acid	Br	O	6-N-acetyl-8-methyladenine	F	H
CF ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	H
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	F	H
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-amino-8-methyladenine	F	H
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methyladenine	F	H
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methylhypoxanthine	F	H
CF ₃	O-amino acid	Br	O	6-Methylthymine	F	O-amino acid
CF ₃	O-amino acid	Br	O	6-Methyluracil	F	O-amino acid
CF ₃	O-amino acid	Br	O	8-Methylguanine	F	O-amino acid
CF ₃	O-amino acid	Br	O	6-Methylcytosine	F	O-amino acid
CF ₃	O-amino acid	Br	O	8-Methyladenine	F	O-amino acid
CF ₃	O-amino acid	Br	O	8-Methylhypoxanthine	F	O-amino acid
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methyluracil	F	O-amino acid
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methylcytosine	F	O-amino acid
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-amino acid	Br	O	2-Amino-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	Br	O	2-Amino-8-methylhypoxanthine	F	O-amino acid

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-amino acid	Br	O	2-N-acetyl-8-methylguanine	F	O-amino acid
CF ₃	O-amino acid	Br	O	4-N-acetyl-8-methylcytosine	F	O-amino acid
CF ₃	O-amino acid	Br	O	6-N-acetyl-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-amino acid	Br	O	6-Methylthymine	F	O-acyl
CF ₃	O-amino acid	Br	O	6-Methyluracil	F	O-acyl
CF ₃	O-amino acid	Br	O	8-Methylguanine	F	O-acyl
CF ₃	O-amino acid	Br	O	6-Methylcytosine	F	O-acyl
CF ₃	O-amino acid	Br	O	8-Methyladenine	F	O-acyl
CF ₃	O-amino acid	Br	O	8-Methylhypoxanthine	F	O-acyl
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methyluracil	F	O-acyl
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methylcytosine	F	O-acyl
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CF ₃	O-amino acid	Br	O	2-Amino-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	Br	O	2-Amino-8-methylhypoxanthine	F	O-acyl
CF ₃	O-amino acid	Br	O	2-N-acetyl-8-methylguanine	F	O-acyl
CF ₃	O-amino acid	Br	O	4-N-acetyl-8-methylcytosine	F	O-acyl
CF ₃	O-amino acid	Br	O	6-N-acetyl-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methylhypoxanthine	F	O-acyl
CF ₃	O-amino acid	Br	O	6-Methylthymine	F	OH
CF ₃	O-amino acid	Br	O	6-Methyluracil	F	OH
CF ₃	O-amino acid	Br	O	8-Methylguanine	F	OH
CF ₃	O-amino acid	Br	O	6-Methylcytosine	F	OH
CF ₃	O-amino acid	Br	O	8-Methyladenine	F	OH
CF ₃	O-amino acid	Br	O	8-Methylhypoxanthine	F	OH
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methyluracil	F	OH
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methylcytosine	F	OH
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methyladenine	F	OH
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methylhypoxanthine	F	OH
CF ₃	O-amino acid	Br	O	2-Amino-8-methyladenine	F	OH
CF ₃	O-amino acid	Br	O	2-Amino-8-methylhypoxanthine	F	OH
CF ₃	O-amino acid	Br	O	2-N-acetyl-8-methylguanine	F	OH
CF ₃	O-amino acid	Br	O	4-N-acetyl-8-methylcytosine	F	OH
CF ₃	O-amino acid	Br	O	6-N-acetyl-8-methyladenine	F	OH
CF ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	OH
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	F	OH
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-amino-8-methyladenine	F	OH
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methyladenine	F	OH
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methylhypoxanthine	F	OH
CF ₃	O-amino acid	Br	O	6-Methylthymine	Br	H
CF ₃	O-amino acid	Br	O	6-Methyluracil	Br	H
CF ₃	O-amino acid	Br	O	8-Methylguanine	Br	H
CF ₃	O-amino acid	Br	O	6-Methylcytosine	Br	H
CF ₃	O-amino acid	Br	O	8-Methyladenine	Br	H
CF ₃	O-amino acid	Br	O	8-Methylhypoxanthine	Br	H
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methyluracil	Br	H
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methylcytosine	Br	H
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methyladenine	Br	H
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methylhypoxanthine	Br	H
CF ₃	O-amino acid	Br	O	2-Amino-8-methyladenine	Br	H
CF ₃	O-amino acid	Br	O	2-Amino-8-methylhypoxanthine	Br	H
CF ₃	O-amino acid	Br	O	2-N-acetyl-8-methylguanine	Br	H
CF ₃	O-amino acid	Br	O	4-N-acetyl-8-methylcytosine	Br	H
CF ₃	O-amino acid	Br	O	6-N-acetyl-8-methyladenine	Br	H
CF ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	H
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	H
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-amino-8-methyladenine	Br	H
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methyladenine	Br	H
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methylhypoxanthine	Br	H
CF ₃	O-amino acid	Br	O	6-Methylthymine	Br	O-amino acid
CF ₃	O-amino acid	Br	O	6-Methyluracil	Br	O-amino acid
CF ₃	O-amino acid	Br	O	8-Methylguanine	Br	O-amino acid
CF ₃	O-amino acid	Br	O	6-Methylcytosine	Br	O-amino acid
CF ₃	O-amino acid	Br	O	8-Methyladenine	Br	O-amino acid

TABLE 6-continued

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-amino acid	Br	O	8-Methylhypoxanthine	Br	O-amino acid
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methyluracil	Br	O-amino acid
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-amino acid	Br	O	2-Amino-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	Br	O	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-amino acid	Br	O	2-N-acetyl-8-methylguanine	Br	O-amino acid
CF ₃	O-amino acid	Br	O	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CF ₃	O-amino acid	Br	O	6-N-acetyl-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-amino acid	Br	O	6-Methylthymine	Br	O-acyl
CF ₃	O-amino acid	Br	O	6-Methyluracil	Br	O-acyl
CF ₃	O-amino acid	Br	O	8-Methylguanine	Br	O-acyl
CF ₃	O-amino acid	Br	O	6-Methylcytosine	Br	O-acyl
CF ₃	O-amino acid	Br	O	8-Methyladenine	Br	O-acyl
CF ₃	O-amino acid	Br	O	8-Methylhypoxanthine	Br	O-acyl
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methyluracil	Br	O-acyl
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methylcytosine	Br	O-acyl
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-amino acid	Br	O	2-Amino-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	Br	O	2-Amino-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-amino acid	Br	O	2-N-acetyl-8-methylguanine	Br	O-acyl
CF ₃	O-amino acid	Br	O	4-N-acetyl-8-methylcytosine	Br	O-acyl
CF ₃	O-amino acid	Br	O	6-N-acetyl-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-amino acid	Br	O	6-Methylthymine	Br	OH
CF ₃	O-amino acid	Br	O	6-Methyluracil	Br	OH
CF ₃	O-amino acid	Br	O	8-Methylguanine	Br	OH
CF ₃	O-amino acid	Br	O	6-Methylcytosine	Br	OH
CF ₃	O-amino acid	Br	O	8-Methyladenine	Br	OH
CF ₃	O-amino acid	Br	O	8-Methylhypoxanthine	Br	OH
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methyluracil	Br	OH
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methylcytosine	Br	OH
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methyladenine	Br	OH
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methylhypoxanthine	Br	OH
CF ₃	O-amino acid	Br	O	2-Amino-8-methyladenine	Br	OH
CF ₃	O-amino acid	Br	O	2-Amino-8-methylhypoxanthine	Br	OH
CF ₃	O-amino acid	Br	O	2-N-acetyl-8-methylguanine	Br	OH
CF ₃	O-amino acid	Br	O	4-N-acetyl-8-methylcytosine	Br	OH
CF ₃	O-amino acid	Br	O	6-N-acetyl-8-methyladenine	Br	OH
CF ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	OH
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	OH
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-amino-8-methyladenine	Br	OH
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methyladenine	Br	OH
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methylhypoxanthine	Br	OH
CF ₃	O-amino acid	Br	O	6-Methylthymine	Cl	H
CF ₃	O-amino acid	Br	O	6-Methyluracil	Cl	H
CF ₃	O-amino acid	Br	O	8-Methylguanine	Cl	H
CF ₃	O-amino acid	Br	O	6-Methylcytosine	Cl	H
CF ₃	O-amino acid	Br	O	8-Methyladenine	Cl	H
CF ₃	O-amino acid	Br	O	8-Methylhypoxanthine	Cl	H
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methyluracil	Cl	H
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methylcytosine	Cl	H
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methyladenine	Cl	H
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methylhypoxanthine	Cl	H
CF ₃	O-amino acid	Br	O	2-Amino-8-methyladenine	Cl	H
CF ₃	O-amino acid	Br	O	2-Amino-8-methylhypoxanthine	Cl	H
CF ₃	O-amino acid	Br	O	2-N-acetyl-8-methylguanine	Cl	H
CF ₃	O-amino acid	Br	O	4-N-acetyl-8-methylcytosine	Cl	H
CF ₃	O-amino acid	Br	O	6-N-acetyl-8-methyladenine	Cl	H
CF ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	H
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	H
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-amino-8-methyladenine	Cl	H
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methyladenine	Cl	H