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58	NPL Documents	ISR_PCTUS0525916.pdf	118701 f5def76cd84b7f7155f6f0b961ad2a7d4a7f0a66a	no	2
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59	NPL Documents	Jones_1995.pdf	3334732 0d8dae99c471ce8f8caed21b208a292e1715fdcc	no	17
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This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Electronic Acknowledgement Receipt

EFS ID:	7517294
Application Number:	12053015
International Application Number:	
Confirmation Number:	3454
Title of Invention:	NUCLEOSIDE PHOSPHORAMIDATE PRODRUGS
First Named Inventor/Applicant Name:	MICHAEL JOSEPH SOFIA
Customer Number:	23552
Filer:	Daniel R. Evans/AMY ALBA
Filer Authorized By:	Daniel R. Evans
Attorney Docket Number:	60137.0034USU1
Receipt Date:	29-APR-2010
Filing Date:	21-MAR-2008
Time Stamp:	15:47:57
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	NPL Documents	Kotra_1997.pdf	806652	no	10

Warnings:	
Information:	

2	NPL Documents	Kryuchkov_1987.pdf	493017 c6f7f0f26765210382669f1f0a4886ec41fa15228	no	5
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Information:					
3	NPL Documents	Li_2003.pdf	416547 7f16aaa2542281f02d6dacf4848497765 1f1a7 6e9	no	4
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4	NPL Documents	Ma_2007v2.pdf	1046368 c9f8b0ff6a7811401407065c9ffac8442507 ffb cc1	no	9
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5	NPL Documents	Mitchell_1992.pdf	2825568 411fc1e459e4841c05d36c220ec9e7ca2f1 fba7	no	9
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6	NPL Documents	Otto_2006.pdf	3060973 55c376d315dc02304255159bb5db7db6527 5d31d	no	17
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7	NPL Documents	Piantadosi_1991.pdf	2457411 b4e37e00f39064598ab625e03b1c0942c1f81 321bd	no	7
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8	NPL Documents	Starrett_1994.pdf	3038949 f4802ea6f2d785b66076701e5aaeda05812 fee2	no	8
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11	NPL Documents	Stuyver_AAC_2003_244to254.pdf	396417 93cd2432089cad159133c79c9974ca23e99f7e3	no	11
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12	NPL Documents	Wolff_1995.pdf	212413 410d5f862376446eb8d9553dabc3952f08f63bb4d2c22	no	4
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15	NPL Documents	Pierra_2006.pdf	543496 bf1e0ba67e2540f4cd76842d0505bbe8e1c52c1	no	7
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<u>New Applications Under 35 U.S.C. 111</u>
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

<u>National Stage of an International Application under 35 U.S.C. 371</u>
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

<u>New International Application Filed with the USPTO as a Receiving Office</u>
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Electronic Acknowledgement Receipt

EFS ID:	7521328
Application Number:	12053015
International Application Number:	
Confirmation Number:	3454
Title of Invention:	NUCLEOSIDE PHOSPHORAMIDATE PRODRUGS
First Named Inventor/Applicant Name:	MICHAEL JOSEPH SOFIA
Customer Number:	23552
Filer:	Daniel R. Evans/AMY ALBA
Filer Authorized By:	Daniel R. Evans
Attorney Docket Number:	60137.0034USU1
Receipt Date:	29-APR-2010
Filing Date:	21-MAR-2008
Time Stamp:	23:11:24
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Foreign Reference	WO04096286v2.pdf	8160225 [illegible]	no	856

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Information:	

Total Files Size (in bytes):	8160225

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Electronic Acknowledgement Receipt

EFS ID:	7522748
Application Number:	12053015
International Application Number:	
Confirmation Number:	3454
Title of Invention:	NUCLEOSIDE PHOSPHORAMIDATE PRODRUGS
First Named Inventor/Applicant Name:	MICHAEL JOSEPH SOFIA
Customer Number:	23552
Filer:	Daniel R. Evans/AMY ALBA
Filer Authorized By:	Daniel R. Evans
Attorney Docket Number:	60137.0034USU1
Receipt Date:	30-APR-2010
Filing Date:	21-MAR-2008
Time Stamp:	11:15:13
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
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This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

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CH_3	H	H	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	H	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	H	H	S	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	H	OH	S	Thymine	F	O-amino acid
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CH_3	H	OH	S	Guanine	F	O-amino acid
CH_3	H	OH	S	Cytosine	F	O-amino acid
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CH_3	H	OH	S	2,8-Difluoroadenine	F	O-amino acid
CH_3	H	OH	S	2-Fluorohypoxanthine	F	O-amino acid
CH_3	H	OH	S	8-Fluorohypoxanthine	F	O-amino acid
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CH_3	H	OH	S	Uracil	F	O-acyl
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CH_3	H	OH	S	Cytosine	F	O-acyl
CH_3	H	OH	S	Adenine	F	O-acyl
CH_3	H	OH	S	Hypoxanthine	F	O-acyl
CH_3	H	OH	S	5-Fluorouracil	F	O-acyl
CH_3	H	OH	S	8-Fluoroguanine	F	O-acyl
CH_3	H	OH	S	5-Fluorocytosine	F	O-acyl
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CH_3	H	OH	S	2-Fluoroadenine	F	O-acyl
CH_3	H	OH	S	2,8-Difluoroadenine	F	O-acyl

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PGR2023-00046 - Page 00829

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CH_3	H	OH	S	2-Aminoadenine	F	O-acyl
CH_3	H	OH	S	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	H	OH	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	H	OH	S	2-Aminohypoxanthine	F	O-acyl
CH_3	H	OH	S	2-N-acetylguanine	F	O-acyl
CH_3	H	OH	S	4-N-acetylcytosine	F	O-acyl
CH_3	H	OH	S	6-N-acetyladenine	F	O-acyl
CH_3	H	OH	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	H	OH	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	H	OH	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	H	OH	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	H	OH	S	6-N-acetyl-2-aminoadenine	F	O-acyl
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CH_3	H	OH	S	2-Fluoroadenine	Br	O-amino acid
CH_3	H	OH	S	2,8-Difluoroadenine	Br	O-amino acid
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CH_3	H	OH	S	8-Fluorohypoxanthine	Br	O-amino acid
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CH_3	H	OH	S	2-N-acetylguanine	Br	O-amino acid
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CH_3	H	OH	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
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CH_3	H	OH	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	H	OH	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	H	OH	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid

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PGR2023-00046 - Page 00830

R^6	R^7	R^8	X	Base	R^{10}	R^9
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CH_3	H	OH	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	H	OH	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
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CH_3	H	OH	S	Guanine	Br	O-acyl
CH_3	H	OH	S	Cytosine	Br	O-acyl
CH_3	H	OH	S	Adenine	Br	O-acyl
CH_3	H	OH	S	Hypoxanthine	Br	O-acyl
CH_3	H	OH	S	5-Fluorouracil	Br	O-acyl
CH_3	H	OH	S	8-Fluoroguanine	Br	O-acyl
CH_3	H	OH	S	5-Fluorocytosine	Br	O-acyl
CH_3	H	OH	S	8-Fluoroadenine	Br	O-acyl
CH_3	H	OH	S	2-Fluoroadenine	Br	O-acyl
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CH_3	H	OH	S	8-Fluorohypoxanthine	Br	O-acyl
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CH_3	H	OH	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	H	OH	S	Thymine	Cl	O-amino acid
CH_3	H	OH	S	Uracil	Cl	O-amino acid
CH_3	H	OH	S	Guanine	Cl	O-amino acid
CH_3	H	OH	S	Cytosine	Cl	O-amino acid
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CH_3	H	OH	S	5-Fluorocytosine	Cl	O-amino acid
CH_3	H	OH	S	8-Fluoroadenine	Cl	O-amino acid

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PGR2023-00046 - Page 00831

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	OH	S	2-Fluoroadenine	Cl	O-amino acid
CH_3	H	OH	S	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	H	OH	S	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	H	OH	S	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	H	OH	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	H	OH	S	2-Aminoadenine	Cl	O-amino acid
CH_3	H	OH	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	OH	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	H	OH	S	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	H	OH	S	2-N-acetylguanine	Cl	O-amino acid
CH_3	H	OH	S	4-N-acetylcytosine	Cl	O-amino acid
CH_3	H	OH	S	6-N-acetyladenine	Cl	O-amino acid
CH_3	H	OH	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	H	OH	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	H	OH	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	H	OH	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	H	OH	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	H	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	OH	S	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	H	OH	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	OH	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	H	OH	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	H	OH	S	Thymine	Cl	O-acyl
CH_3	H	OH	S	Uracil	Cl	O-acyl
CH_3	H	OH	S	Guanine	Cl	O-acyl
CH_3	H	OH	S	Cytosine	Cl	O-acyl
CH_3	H	OH	S	Adenine	Cl	O-acyl
CH_3	H	OH	S	Hypoxanthine	Cl	O-acyl
CH_3	H	OH	S	5-Fluorouracil	Cl	O-acyl
CH_3	H	OH	S	8-Fluoroguanine	Cl	O-acyl
CH_3	H	OH	S	5-Fluorocytosine	Cl	O-acyl
CH_3	H	OH	S	8-Fluoroadenine	Cl	O-acyl
CH_3	H	OH	S	2-Fluoroadenine	Cl	O-acyl
CH_3	H	OH	S	2,8-Difluoroadenine	Cl	O-acyl
CH_3	H	OH	S	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	H	OH	S	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	H	OH	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	H	OH	S	2-Aminoadenine	Cl	O-acyl
CH_3	H	OH	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	H	OH	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	H	OH	S	2-Aminohypoxanthine	Cl	O-acyl
CH_3	H	OH	S	2-N-acetylguanine	Cl	O-acyl
CH_3	H	OH	S	4-N-acetylcytosine	Cl	O-acyl
CH_3	H	OH	S	6-N-acetyladenine	Cl	O-acyl
CH_3	H	OH	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	H	OH	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	H	OH	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl

Gilead Exhibit 2015
PGR2023-00046 - Page 00832

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	OH	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	H	OH	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	H	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	H	OH	S	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	H	OH	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	H	OH	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	H	OH	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	H	OH	S	Thymine	H	O-amino acid
CH_3	H	OH	S	Uracil	H	O-amino acid
CH_3	H	OH	S	Guanine	H	O-amino acid
CH_3	H	OH	S	Cytosine	H	O-amino acid
CH_3	H	OH	S	Adenine	H	O-amino acid
CH_3	H	OH	S	Hypoxanthine	H	O-amino acid
CH_3	H	OH	S	5-Fluorouracil	H	O-amino acid
CH_3	H	OH	S	8-Fluoroguanine	H	O-amino acid
CH_3	H	OH	S	5-Fluorocytosine	H	O-amino acid
CH_3	H	OH	S	8-Fluoroadenine	H	O-amino acid
CH_3	H	OH	S	2-Fluoroadenine	H	O-amino acid
CH_3	H	OH	S	2,8-Difluoroadenine	H	O-amino acid
CH_3	H	OH	S	2-Fluorohypoxanthine	H	O-amino acid
CH_3	H	OH	S	8-Fluorohypoxanthine	H	O-amino acid
CH_3	H	OH	S	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	H	OH	S	2-Aminoadenine	H	O-amino acid
CH_3	H	OH	S	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	H	OH	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	H	OH	S	2-Aminohypoxanthine	H	O-amino acid
CH_3	H	OH	S	2-N-acetylguanine	H	O-amino acid
CH_3	H	OH	S	4-N-acetylcytosine	H	O-amino acid
CH_3	H	OH	S	6-N-acetyladenine	H	O-amino acid
CH_3	H	OH	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	H	OH	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	H	OH	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	H	OH	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	H	OH	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	H	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	H	OH	S	2-N-acetylaminoadenine	H	O-amino acid
CH_3	H	OH	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	H	OH	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	H	OH	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	H	OH	S	Thymine	H	O-acyl
CH_3	H	OH	S	Uracil	H	O-acyl
CH_3	H	OH	S	Guanine	H	O-acyl
CH_3	H	OH	S	Cytosine	H	O-acyl
CH_3	H	OH	S	Adenine	H	O-acyl
CH_3	H	OH	S	Hypoxanthine	H	O-acyl
CH_3	H	OH	S	5-Fluorouracil	H	O-acyl
CH_3	H	OH	S	8-Fluoroguanine	H	O-acyl

Gilead Exhibit 2015
PGR2023-00046 - Page 00833

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	OH	S	5-Fluorocytosine	H	O-acyl
CH_3	H	OH	S	8-Fluoroadenine	H	O-acyl
CH_3	H	OH	S	2-Fluoroadenine	H	O-acyl
CH_3	H	OH	S	2,8-Difluoroadenine	H	O-acyl
CH_3	H	OH	S	2-Fluorohypoxanthine	H	O-acyl
CH_3	H	OH	S	8-Fluorohypoxanthine	H	O-acyl
CH_3	H	OH	S	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	H	OH	S	2-Aminoadenine	H	O-acyl
CH_3	H	OH	S	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	H	OH	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	H	OH	S	2-Aminohypoxanthine	H	O-acyl
CH_3	H	OH	S	2-N-acetylguanine	H	O-acyl
CH_3	H	OH	S	4-N-acetylcytosine	H	O-acyl
CH_3	H	OH	S	6-N-acetyladenine	H	O-acyl
CH_3	H	OH	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	H	OH	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	H	OH	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	H	OH	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	H	OH	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	H	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	H	OH	S	2-N-acetylaminoadenine	H	O-acyl
CH_3	H	OH	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	H	OH	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	H	OH	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	O-acyl	F	S	Thymine	F	H
CF_3	O-acyl	F	S	Uracil	F	H
CF_3	O-acyl	F	S	Guanine	F	H
CF_3	O-acyl	F	S	Cytosine	F	H
CF_3	O-acyl	F	S	Adenine	F	H
CF_3	O-acyl	F	S	Hypoxanthine	F	H
CF_3	O-acyl	F	S	5-Fluorouracil	F	H
CF_3	O-acyl	F	S	8-Fluoroguanine	F	H
CF_3	O-acyl	F	S	5-Fluorocytosine	F	H
CF_3	O-acyl	F	S	8-Fluoroadenine	F	H
CF_3	O-acyl	F	S	2-Fluoroadenine	F	H
CF_3	O-acyl	F	S	2,8-Difluoroadenine	F	H
CF_3	O-acyl	F	S	2-Fluorohypoxanthine	F	H
CF_3	O-acyl	F	S	8-Fluorohypoxanthine	F	H
CF_3	O-acyl	F	S	2,8-Difluorohypoxanthine	F	H
CF_3	O-acyl	F	S	2-Aminoadenine	F	H
CF_3	O-acyl	F	S	2-Amino-8-fluoroadenine	F	H

Gilead Exhibit 2015
PGR2023-00046 - Page 00834

R⁶	R⁷	R⁸	X	Base	R¹⁰	R⁹
CF_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	F	H
CF_3	O-acyl	F	S	2-Aminohypoxanthine	F	H
CF_3	O-acyl	F	S	2-N-acetylguanine	F	H
CF_3	O-acyl	F	S	4-N-acetylcytosine	F	H
CF_3	O-acyl	F	S	6-N-acetyladenine	F	H
CF_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	F	H
CF_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	F	H
CF_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	F	H
CF_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	F	H
CF_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	F	H
CF_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CF_3	O-acyl	F	S	2-N-acetylaminoadenine	F	H
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	F	H
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	H
CF_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	F	H
CF_3	O-acyl	F	S	Thymine	F	O-amino acid
CF_3	O-acyl	F	S	Uracil	F	O-amino acid
CF_3	O-acyl	F	S	Guanine	F	O-amino acid
CF_3	O-acyl	F	S	Cytosine	F	O-amino acid
CF_3	O-acyl	F	S	Adenine	F	O-amino acid
CF_3	O-acyl	F	S	Hypoxanthine	F	O-amino acid
CF_3	O-acyl	F	S	5-Fluorouracil	F	O-amino acid
CF_3	O-acyl	F	S	8-Fluoroguanine	F	O-amino acid
CF_3	O-acyl	F	S	5-Fluorocytosine	F	O-amino acid
CF_3	O-acyl	F	S	8-Fluoroadenine	F	O-amino acid
CF_3	O-acyl	F	S	2-Fluoroadenine	F	O-amino acid
CF_3	O-acyl	F	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	O-acyl	F	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	F	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	F	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	F	S	2-Aminoadenine	F	O-amino acid
CF_3	O-acyl	F	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	F	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylguanine	F	O-amino acid
CF_3	O-acyl	F	S	4-N-acetylcytosine	F	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyladenine	F	O-amino acid
CF_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	F	O-amino acid

Gilead Exhibit 2015
PGR2023-00046 - Page 00835

R^6	R^7	R^8	X	Base	R^{10}	R^5
CF_3	O-acyl	F	S	Thymine	F	O-acyl
CF_3	O-acyl	F	S	Uracil	F	O-acyl
CF_3	O-acyl	F	S	Guanine	F	O-acyl
CF_3	O-acyl	F	S	Cytosine	F	O-acyl
CF_3	O-acyl	F	S	Adenine	F	O-acyl
CF_3	O-acyl	F	S	Hypoxanthine	F	O-acyl
CF_3	O-acyl	F	S	5-Fluorouracil	F	O-acyl
CF_3	O-acyl	F	S	8-Fluoroguanine	F	O-acyl
CF_3	O-acyl	F	S	5-Fluorocytosine	F	O-acyl
CF_3	O-acyl	F	S	8-Fluoroadenine	F	O-acyl
CF_3	O-acyl	F	S	2-Fluoroadenine	F	O-acyl
CF_3	O-acyl	F	S	2,8-Difluoroadenine	F	O-acyl
CF_3	O-acyl	F	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	F	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	F	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	O-acyl	F	S	2-Aminoadenine	F	O-acyl
CF_3	O-acyl	F	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	F	S	2-Aminohypoxanthine	F	O-acyl
CF_3	O-acyl	F	S	2-N-acetylguanine	F	O-acyl
CF_3	O-acyl	F	S	4-N-acetylcytosine	F	O-acyl
CF_3	O-acyl	F	S	6-N-acetyladenine	F	O-acyl
CF_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	F	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	O-acyl	F	S	Thymine	F	OH
CF_3	O-acyl	F	S	Uracil	F	OH
CF_3	O-acyl	F	S	Guanine	F	OH
CF_3	O-acyl	F	S	Cytosine	F	OH
CF_3	O-acyl	F	S	Adenine	F	OH
CF_3	O-acyl	F	S	Hypoxanthine	F	OH
CF_3	O-acyl	F	S	5-Fluorouracil	F	OH
CF_3	O-acyl	F	S	8-Fluoroguanine	F	OH
CF_3	O-acyl	F	S	5-Fluorocytosine	F	OH
CF_3	O-acyl	F	S	8-Fluoroadenine	F	OH
CF_3	O-acyl	F	S	2-Fluoroadenine	F	OH
CF_3	O-acyl	F	S	2,8-Difluoroadenine	F	OH
CF_3	O-acyl	F	S	2-Fluorohypoxanthine	F	OH
CF_3	O-acyl	F	S	8-Fluorohypoxanthine	F	OH
CF_3	O-acyl	F	S	2,8-Difluorohypoxanthine	F	OH

Gilead Exhibit 2015
PGR2023-00046 - Page 00836

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	S	2-Aminoadenine	F	OH
CF_3	O-acyl	F	S	2-Amino-8-fluoroadenine	F	OH
CF_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	F	OH
CF_3	O-acyl	F	S	2-Aminohypoxanthine	F	OH
CF_3	O-acyl	F	S	2-N-acetylguanine	F	OH
CF_3	O-acyl	F	S	4-N-acetylcytosine	F	OH
CF_3	O-acyl	F	S	6-N-acetyladenine	F	OH
CF_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	F	OH
CF_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	F	OH
CF_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	F	OH
CF_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	F	OH
CF_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	F	OH
CF_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CF_3	O-acyl	F	S	2-N-acetylaminoadenine	F	OH
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	F	OH
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CF_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	F	OH
CF_3	O-acyl	F	S	Thymine	Br	H
CF_3	O-acyl	F	S	Uracil	Br	H
CF_3	O-acyl	F	S	Guanine	Br	H
CF_3	O-acyl	F	S	Cytosine	Br	H
CF_3	O-acyl	F	S	Adenine	Br	H
CF_3	O-acyl	F	S	Hypoxanthine	Br	H
CF_3	O-acyl	F	S	5-Fluorouracil	Br	H
CF_3	O-acyl	F	S	8-Fluoroguanine	Br	H
CF_3	O-acyl	F	S	5-Fluorocytosine	Br	H
CF_3	O-acyl	F	S	8-Fluoroadenine	Br	H
CF_3	O-acyl	F	S	2-Fluoroadenine	Br	H
CF_3	O-acyl	F	S	2,8-Difluoroadenine	Br	H
CF_3	O-acyl	F	S	2-Fluorohypoxanthine	Br	H
CF_3	O-acyl	F	S	8-Fluorohypoxanthine	Br	H
CF_3	O-acyl	F	S	2,8-Difluorohypoxanthine	Br	H
CF_3	O-acyl	F	S	2-Aminoadenine	Br	H
CF_3	O-acyl	F	S	2-Amino-8-fluoroadenine	Br	H
CF_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	Br	H
CF_3	O-acyl	F	S	2-Aminohypoxanthine	Br	H
CF_3	O-acyl	F	S	2-N-acetylguanine	Br	H
CF_3	O-acyl	F	S	4-N-acetylcytosine	Br	H
CF_3	O-acyl	F	S	6-N-acetyladenine	Br	H
CF_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	Br	H
CF_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	Br	H
CF_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	Br	H
CF_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	Br	H
CF_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	Br	H
CF_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CF_3	O-acyl	F	S	2-N-acetylaminoadenine	Br	H
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	Br	H

Gilead Exhibit 2015
PGR2023-00046 - Page 00837

R^2	R^3	R^5	X	Base	R^{10}	R^9
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CF_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	Br	H
CF_3	O-acyl	F	S	Thymine	Br	O-amino acid
CF_3	O-acyl	F	S	Uracil	Br	O-amino acid
CF_3	O-acyl	F	S	Guanine	Br	O-amino acid
CF_3	O-acyl	F	S	Cytosine	Br	O-amino acid
CF_3	O-acyl	F	S	Adenine	Br	O-amino acid
CF_3	O-acyl	F	S	Hypoxanthine	Br	O-amino acid
CF_3	O-acyl	F	S	5-Fluorouracil	Br	O-amino acid
CF_3	O-acyl	F	S	8-Fluoroguanine	Br	O-amino acid
CF_3	O-acyl	F	S	5-Fluorocytosine	Br	O-amino acid
CF_3	O-acyl	F	S	8-Fluoroadenine	Br	O-amino acid
CF_3	O-acyl	F	S	2-Fluoroadenine	Br	O-amino acid
CF_3	O-acyl	F	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	O-acyl	F	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	F	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	F	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	F	S	2-Aminoadenine	Br	O-amino acid
CF_3	O-acyl	F	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	F	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylguanine	Br	O-amino acid
CF_3	O-acyl	F	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyladenine	Br	O-amino acid
CF_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	O-acyl	F	S	Thymine	Br	O-acyl
CF_3	O-acyl	F	S	Uracil	Br	O-acyl
CF_3	O-acyl	F	S	Guanine	Br	O-acyl
CF_3	O-acyl	F	S	Cytosine	Br	O-acyl
CF_3	O-acyl	F	S	Adenine	Br	O-acyl
CF_3	O-acyl	F	S	Hypoxanthine	Br	O-acyl
CF_3	O-acyl	F	S	5-Fluorouracil	Br	O-acyl
CF_3	O-acyl	F	S	8-Fluoroguanine	Br	O-acyl
CF_3	O-acyl	F	S	5-Fluorocytosine	Br	O-acyl
CF_3	O-acyl	F	S	8-Fluoroadenine	Br	O-acyl
CF_3	O-acyl	F	S	2-Fluoroadenine	Br	O-acyl
CF_3	O-acyl	F	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	O-acyl	F	S	2-Fluorohypoxanthine	Br	O-acyl

Gilead Exhibit 2015
PGR2023-00046 - Page 00838

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	F	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	F	S	2-Aminoadenine	Br	O-acyl
CF_3	O-acyl	F	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	F	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	O-acyl	F	S	2-N-acetylguanine	Br	O-acyl
CF_3	O-acyl	F	S	4-N-acetylcytosine	Br	O-acyl
CF_3	O-acyl	F	S	6-N-acetyladenine	Br	O-acyl
CF_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	F	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	O-acyl	F	S	Thymine	Br	OH
CF_3	O-acyl	F	S	Uracil	Br	OH
CF_3	O-acyl	F	S	Guamine	Br	OH
CF_3	O-acyl	F	S	Cytosine	Br	OH
CF_3	O-acyl	F	S	Adenine	Br	OH
CF_3	O-acyl	F	S	Hypoxanthine	Br	OH
CF_3	O-acyl	F	S	5-Fluorouracil	Br	OH
CF_3	O-acyl	F	S	8-Fluoroguanine	Br	OH
CF_3	O-acyl	F	S	5-Fluorocytosine	Br	OH
CF_3	O-acyl	F	S	8-Fluoroadenine	Br	OH
CF_3	O-acyl	F	S	2-Fluoroadenine	Br	OH
CF_3	O-acyl	F	S	2,8-Difluoroadenine	Br	OH
CF_3	O-acyl	F	S	2-Fluorohypoxanthine	Br	OH
CF_3	O-acyl	F	S	8-Fluorohypoxanthine	Br	OH
CF_3	O-acyl	F	S	2,8-Difluorohypoxanthine	Br	OH
CF_3	O-acyl	F	S	2-Aminoadenine	Br	OH
CF_3	O-acyl	F	S	2-Amino-8-fluoroadenine	Br	OH
CF_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	Br	OH
CF_3	O-acyl	F	S	2-Aminohypoxanthine	Br	OH
CF_3	O-acyl	F	S	2-N-acetylguanine	Br	OH
CF_3	O-acyl	F	S	4-N-acetylcytosine	Br	OH
CF_3	O-acyl	F	S	6-N-acetyladenine	Br	OH
CF_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	Br	OH
CF_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	Br	OH
CF_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	Br	OH
CF_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	Br	OH
CF_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	Br	OH
CF_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH

Gilead Exhibit 2015
PGR2023-00046 - Page 00839

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	S	2-N-acetylaminoadenine	Br	OH
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	Br	OH
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CF_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	Br	OH
CF_3	O-acyl	F	S	Thymine	Cl	O-acyl
CF_3	O-acyl	F	S	Uracil	Cl	O-acyl
CF_3	O-acyl	F	S	Guanine	Cl	O-acyl
CF_3	O-acyl	F	S	Cytosine	Cl	O-acyl
CF_3	O-acyl	F	S	Adenine	Cl	O-acyl
CF_3	O-acyl	F	S	Hypoxanthine	Cl	O-acyl
CF_3	O-acyl	F	S	5-Fluorouracil	Cl	O-acyl
CF_3	O-acyl	F	S	8-Fluoroguanine	Cl	O-acyl
CF_3	O-acyl	F	S	5-Fluorocytosine	Cl	O-acyl
CF_3	O-acyl	F	S	8-Fluoroadenine	Cl	O-acyl
CF_3	O-acyl	F	S	2-Fluoroadenine	Cl	O-acyl
CF_3	O-acyl	F	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	O-acyl	F	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	F	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	F	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	F	S	2-Aminoadenine	Cl	O-acyl
CF_3	O-acyl	F	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	F	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	O-acyl	F	S	2-N-acetylguanine	Cl	O-acyl
CF_3	O-acyl	F	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	O-acyl	F	S	6-N-acetyladenine	Cl	O-acyl
CF_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	F	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	O-acyl	F	S	Thymine	Cl	OH
CF_3	O-acyl	F	S	Uracil	Cl	OH
CF_3	O-acyl	F	S	Guanine	Cl	OH
CF_3	O-acyl	F	S	Cytosine	Cl	OH
CF_3	O-acyl	F	S	Adenine	Cl	OH
CF_3	O-acyl	F	S	Hypoxanthine	Cl	OH
CF_3	O-acyl	F	S	5-Fluorouracil	Cl	OH
CF_3	O-acyl	F	S	8-Fluoroguanine	Cl	OH
CF_3	O-acyl	F	S	5-Fluorocytosine	Cl	OH
CF_3	O-acyl	F	S	8-Fluoroadenine	Cl	OH
CF_3	O-acyl	F	S	2-Fluoroadenine	Cl	OH

Gilead Exhibit 2015
PGR2023-00046 - Page 00840

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	S	2,8-Difluoroadenine	Cl	OH
CF_3	O-acyl	F	S	2-Fluorohypoxanthine	Cl	OH
CF_3	O-acyl	F	S	8-Fluorohypoxanthine	Cl	OH
CF_3	O-acyl	F	S	2,8-Difluorohypoxanthine	Cl	OH
CF_3	O-acyl	F	S	2-Aminoadenine	Cl	OH
CF_3	O-acyl	F	S	2-Amino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	Cl	OH
CF_3	O-acyl	F	S	2-Aminohypoxanthine	Cl	OH
CF_3	O-acyl	F	S	2-N-acetylguanine	Cl	OH
CF_3	O-acyl	F	S	4-N-acetylcytosine	Cl	OH
CF_3	O-acyl	F	S	6-N-acetyladenine	Cl	OH
CF_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	Cl	OH
CF_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	Cl	OH
CF_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	Cl	OH
CF_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CF_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	Cl	OH
CF_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	F	S	2-N-acetylaminoadenine	Cl	OH
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CF_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	Cl	OH
CF_3	O-acyl	F	S	Thymine	Cl	H
CF_3	O-acyl	F	S	Uracil	Cl	H
CF_3	O-acyl	F	S	Guanine	Cl	H
CF_3	O-acyl	F	S	Cytosine	Cl	H
CF_3	O-acyl	F	S	Adenine	Cl	H
CF_3	O-acyl	F	S	Hypoxanthine	Cl	H
CF_3	O-acyl	F	S	5-Fluorouracil	Cl	H
CF_3	O-acyl	F	S	8-Fluoroguanine	Cl	H
CF_3	O-acyl	F	S	5-Fluorocytosine	Cl	H
CF_3	O-acyl	F	S	8-Fluoroadenine	Cl	H
CF_3	O-acyl	F	S	2-Fluoroadenine	Cl	H
CF_3	O-acyl	F	S	2,8-Difluoroadenine	Cl	H
CF_3	O-acyl	F	S	2-Fluorohypoxanthine	Cl	H
CF_3	O-acyl	F	S	8-Fluorohypoxanthine	Cl	H
CF_3	O-acyl	F	S	2,8-Difluorohypoxanthine	Cl	H
CF_3	O-acyl	F	S	2-Aminoadenine	Cl	H
CF_3	O-acyl	F	S	2-Amino-8-fluoroadenine	Cl	H
CF_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	Cl	H
CF_3	O-acyl	F	S	2-Aminohypoxanthine	Cl	H
CF_3	O-acyl	F	S	2-N-acetylguanine	Cl	H
CF_3	O-acyl	F	S	4-N-acetylcytosine	Cl	H
CF_3	O-acyl	F	S	6-N-acetyladenine	Cl	H
CF_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	Cl	H
CF_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	Cl	H
CF_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	Cl	H
CF_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	H

Gilead Exhibit 2015
PGR2023-00046 - Page 00841

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	Cl	H
CF_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CF_3	O-acyl	F	S	2-N-acetylaminoadenine	Cl	H
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	Cl	H
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CF_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	Cl	H
CF_3	O-acyl	F	S	Thymine	Cl	O-amino acid
CF_3	O-acyl	F	S	Uracil	Cl	O-amino acid
CF_3	O-acyl	F	S	Guanine	Cl	O-amino acid
CF_3	O-acyl	F	S	Cytosine	Cl	O-amino acid
CF_3	O-acyl	F	S	Adenine	Cl	O-amino acid
CF_3	O-acyl	F	S	Hypoxanthine	Cl	O-amino acid
CF_3	O-acyl	F	S	5-Fluorouracil	Cl	O-amino acid
CF_3	O-acyl	F	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	O-acyl	F	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	O-acyl	F	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	F	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	F	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	O-acyl	F	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	F	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	F	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	F	S	2-Aminoadenine	Cl	O-amino acid
CF_3	O-acyl	F	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	F	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	O-acyl	F	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	F	S	Thymine	H	H
CF_3	O-acyl	F	S	Uracil	H	H
CF_3	O-acyl	F	S	Guanine	H	H
CF_3	O-acyl	F	S	Cytosine	H	H
CF_3	O-acyl	F	S	Adenine	H	H
CF_3	O-acyl	F	S	Hypoxanthine	H	H
CF_3	O-acyl	F	S	5-Fluorouracil	H	H
CF_3	O-acyl	F	S	8-Fluoroguanine	H	H
CF_3	O-acyl	F	S	5-Fluorocytosine	H	H

Gilead Exhibit 2015
PGR2023-00046 - Page 00842

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	S	8-Fluoroadenine	H	H
CF_3	O-acyl	F	S	2-Fluoroadenine	H	H
CF_3	O-acyl	F	S	2,8-Difluoroadenine	H	H
CF_3	O-acyl	F	S	2-Fluorohypoxanthine	H	H
CF_3	O-acyl	F	S	8-Fluorohypoxanthine	H	H
CF_3	O-acyl	F	S	2,8-Difluorohypoxanthine	H	H
CF_3	O-acyl	F	S	2-Aminoadenine	H	H
CF_3	O-acyl	F	S	2-Amino-8-fluoroadenine	H	H
CF_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	H	H
CF_3	O-acyl	F	S	2-Aminohypoxanthine	H	H
CF_3	O-acyl	F	S	2-N-acetylguanine	H	H
CF_3	O-acyl	F	S	4-N-acetylcytosine	H	H
CF_3	O-acyl	F	S	6-N-acetyladenine	H	H
CF_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	H	H
CF_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	H	H
CF_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	H	H
CF_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	H	H
CF_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	H	H
CF_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CF_3	O-acyl	F	S	2-N-acetylaminoadenine	H	H
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	H	H
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	H
CF_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	H	H
CF_3	O-acyl	F	S	Thymine	H	O-amino acid
CF_3	O-acyl	F	S	Uracil	H	O-amino acid
CF_3	O-acyl	F	S	Guanine	H	O-amino acid
CF_3	O-acyl	F	S	Cytosine	H	O-amino acid
CF_3	O-acyl	F	S	Adenine	H	O-amino acid
CF_3	O-acyl	F	S	Hypoxanthine	H	O-amino acid
CF_3	O-acyl	F	S	5-Fluorouracil	H	O-amino acid
CF_3	O-acyl	F	S	8-Fluoroguanine	H	O-amino acid
CF_3	O-acyl	F	S	5-Fluorocytosine	H	O-amino acid
CF_3	O-acyl	F	S	8-Fluoroadenine	H	O-amino acid
CF_3	O-acyl	F	S	2-Fluoroadenine	H	O-amino acid
CF_3	O-acyl	F	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	O-acyl	F	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	F	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	F	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	F	S	2-Aminoadenine	H	O-amino acid
CF_3	O-acyl	F	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	F	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylguanine	H	O-amino acid
CF_3	O-acyl	F	S	4-N-acetylcytosine	H	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyladenine	H	O-amino acid
CF_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid

Gilead Exhibit 2015
PGR2023-00046 - Page 00843

R^9	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	O-acyl	F	S	Thymine	H	O-acyl
CF_3	O-acyl	F	S	Uracil	H	O-acyl
CF_3	O-acyl	F	S	Guanine	H	O-acyl
CF_3	O-acyl	F	S	Cytosine	H	O-acyl
CF_3	O-acyl	F	S	Adenine	H	O-acyl
CF_3	O-acyl	F	S	Hypoxanthine	H	O-acyl
CF_3	O-acyl	F	S	5-Fluorouracil	H	O-acyl
CF_3	O-acyl	F	S	8-Fluoroguanine	H	O-acyl
CF_3	O-acyl	F	S	5-Fluorocytosine	H	O-acyl
CF_3	O-acyl	F	S	8-Fluoroadenine	H	O-acyl
CF_3	O-acyl	F	S	2-Fluoroadenine	H	O-acyl
CF_3	O-acyl	F	S	2,8-Difluoroadenine	H	O-acyl
CF_3	O-acyl	F	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	F	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	F	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	O-acyl	F	S	2-Aminoadenine	H	O-acyl
CF_3	O-acyl	F	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	F	S	2-Aminohypoxanthine	H	O-acyl
CF_3	O-acyl	F	S	2-N-acetylguanine	H	O-acyl
CF_3	O-acyl	F	S	4-N-acetylcytosine	H	O-acyl
CF_3	O-acyl	F	S	6-N-acetyladenine	H	O-acyl
CF_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	F	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	O-acyl	F	S	Thymine	H	OH
CF_3	O-acyl	F	S	Uracil	H	OH
CF_3	O-acyl	F	S	Guanine	H	OH
CF_3	O-acyl	F	S	Cytosine	H	OH
CF_3	O-acyl	F	S	Adenine	H	OH
CF_3	O-acyl	F	S	Hypoxanthine	H	OH
CF_3	O-acyl	F	S	5-Fluorouracil	H	OH

Gilead Exhibit 2015
PGR2023-00046 - Page 00844

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	S	8-Fluoroguanine	H	OH
CF_3	O-acyl	F	S	5-Fluorocytosine	H	OH
CF_3	O-acyl	F	S	8-Fluoroadenine	H	OH
CF_3	O-acyl	F	S	2-Fluoroadenine	H	OH
CF_3	O-acyl	F	S	2,8-Difluoroadenine	H	OH
CF_3	O-acyl	F	S	2-Fluorohypoxanthine	H	OH
CF_3	O-acyl	F	S	8-Fluorohypoxanthine	H	OH
CF_3	O-acyl	F	S	2,8-Difluorohypoxanthine	H	OH
CF_3	O-acyl	F	S	2-Aminoadenine	H	OH
CF_3	O-acyl	F	S	2-Amino-8-fluoroadenine	H	OH
CF_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	H	OH
CF_3	O-acyl	F	S	2-Aminohypoxanthine	H	OH
CF_3	O-acyl	F	S	2-N-acetylguanine	H	OH
CF_3	O-acyl	F	S	4-N-acetylcytosine	H	OH
CF_3	O-acyl	F	S	6-N-acetyladenine	H	OH
CF_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	H	OH
CF_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	H	OH
CF_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	H	OH
CF_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	H	OH
CF_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	H	OH
CF_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CF_3	O-acyl	F	S	2-N-acetylaminoadenine	H	OH
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	H	OH
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CF_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	H	OH
CF_3	O-acyl	F	S	Thymine	OH	H
CF_3	O-acyl	F	S	Uracil	OH	H
CF_3	O-acyl	F	S	Guanine	OH	H
CF_3	O-acyl	F	S	Cytosine	OH	H
CF_3	O-acyl	F	S	Adenine	OH	H
CF_3	O-acyl	F	S	Hypoxanthine	OH	H
CF_3	O-acyl	F	S	5-Fluorouracil	OH	H
CF_3	O-acyl	F	S	8-Fluoroguanine	OH	H
CF_3	O-acyl	F	S	5-Fluorocytosine	OH	H
CF_3	O-acyl	F	S	8-Fluoroadenine	OH	H
CF_3	O-acyl	F	S	2-Fluoroadenine	OH	H
CF_3	O-acyl	F	S	2,8-Difluoroadenine	OH	H
CF_3	O-acyl	F	S	2-Fluorohypoxanthine	OH	H
CF_3	O-acyl	F	S	8-Fluorohypoxanthine	OH	H
CF_3	O-acyl	F	S	2,8-Difluorohypoxanthine	OH	H
CF_3	O-acyl	F	S	2-Aminoadenine	OH	H
CF_3	O-acyl	F	S	2-Amino-8-fluoroadenine	OH	H
CF_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	OH	H
CF_3	O-acyl	F	S	2-Aminohypoxanthine	OH	H
CF_3	O-acyl	F	S	2-N-acetylguanine	OH	H
CF_3	O-acyl	F	S	4-N-acetylcytosine	OH	H
CF_3	O-acyl	F	S	6-N-acetyladenine	OH	H

Gilead Exhibit 2015
PGR2023-00046 - Page 00845

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	OH	H
CF_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	OH	H
CF_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	OH	H
CF_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	OH	H
CF_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	OH	H
CF_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CF_3	O-acyl	F	S	2-N-acetylaminoadenine	OH	H
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	OH	H
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CF_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	OH	H
CF_3	O-acyl	Br	S	Thymine	F	H
CF_3	O-acyl	Br	S	Uracil	F	H
CF_3	O-acyl	Br	S	Guanine	F	H
CF_3	O-acyl	Br	S	Cytosine	F	H
CF_3	O-acyl	Br	S	Adenine	F	H
CF_3	O-acyl	Br	S	Hypoxanthine	F	H
CF_3	O-acyl	Br	S	5-Fluorouracil	F	H
CF_3	O-acyl	Br	S	8-Fluoroguanine	F	H
CF_3	O-acyl	Br	S	5-Fluorocytosine	F	H
CF_3	O-acyl	Br	S	8-Fluoroadenine	F	H
CF_3	O-acyl	Br	S	2-Fluoroadenine	F	H
CF_3	O-acyl	Br	S	2,8-Difluoroadenine	F	H
CF_3	O-acyl	Br	S	2-Fluorohypoxanthine	F	H
CF_3	O-acyl	Br	S	8-Fluorohypoxanthine	F	H
CF_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	F	H
CF_3	O-acyl	Br	S	2-Aminoadenine	F	H
CF_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	F	H
CF_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	F	H
CF_3	O-acyl	Br	S	2-Aminohypoxanthine	F	H
CF_3	O-acyl	Br	S	2-N-acetylguanine	F	H
CF_3	O-acyl	Br	S	4-N-acetylcytosine	F	H
CF_3	O-acyl	Br	S	6-N-acetyladenine	F	H
CF_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	F	H
CF_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	F	H
CF_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	F	H
CF_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	F	H
CF_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	F	H
CF_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CF_3	O-acyl	Br	S	2-N-acetylaminoadenine	F	H
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	F	H
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	H
CF_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	F	H
CF_3	O-acyl	Br	S	Thymine	F	O-amino acid
CF_3	O-acyl	Br	S	Uracil	F	O-amino acid
CF_3	O-acyl	Br	S	Guanine	F	O-amino acid
CF_3	O-acyl	Br	S	Cytosine	F	O-amino acid
CF_3	O-acyl	Br	S	Adenine	F	O-amino acid

Gilead Exhibit 2015
PGR2023-00046 - Page 00846

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	S	Hypoxanthine	F	O-amino acid
CF_3	O-acyl	Br	S	5-Fluorouracil	F	O-amino acid
CF_3	O-acyl	Br	S	8-Fluoroguanine	F	O-amino acid
CF_3	O-acyl	Br	S	5-Fluorocytosine	F	O-amino acid
CF_3	O-acyl	Br	S	8-Fluoroadenine	F	O-amino acid
CF_3	O-acyl	Br	S	2-Fluoroadenine	F	O-amino acid
CF_3	O-acyl	Br	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	O-acyl	Br	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	Br	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	Br	S	2-Aminoadenine	F	O-amino acid
CF_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	Br	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylguanine	F	O-amino acid
CF_3	O-acyl	Br	S	4-N-acetylcytosine	F	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyladenine	F	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	O-acyl	Br	S	Thymine	F	O-acyl
CF_3	O-acyl	Br	S	Uracil	F	O-acyl
CF_3	O-acyl	Br	S	Guanine	F	O-acyl
CF_3	O-acyl	Br	S	Cytosine	F	O-acyl
CF_3	O-acyl	Br	S	Adenine	F	O-acyl
CF_3	O-acyl	Br	S	Hypoxanthine	F	O-acyl
CF_3	O-acyl	Br	S	5-Fluorouracil	F	O-acyl
CF_3	O-acyl	Br	S	8-Fluoroguanine	F	O-acyl
CF_3	O-acyl	Br	S	5-Fluorocytosine	F	O-acyl
CF_3	O-acyl	Br	S	8-Fluoroadenine	F	O-acyl
CF_3	O-acyl	Br	S	2-Fluoroadenine	F	O-acyl
CF_3	O-acyl	Br	S	2,8-Difluoroadenine	F	O-acyl
CF_3	O-acyl	Br	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	Br	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	O-acyl	Br	S	2-Aminoadenine	F	O-acyl
CF_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	Br	S	2-Aminohypoxanthine	F	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylguanine	F	O-acyl

Gilead Exhibit 2015
PGR2023-00046 - Page 00847

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	S	4-N-acetylcytosine	F	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyladenine	F	O-acyl
CF_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	O-acyl	Br	S	Thymine	F	OH
CF_3	O-acyl	Br	S	Uracil	F	OH
CF_3	O-acyl	Br	S	Guanine	F	OH
CF_3	O-acyl	Br	S	Cytosine	F	OH
CF_3	O-acyl	Br	S	Adenine	F	OH
CF_3	O-acyl	Br	S	Hypoxanthine	F	OH
CF_3	O-acyl	Br	S	5-Fluorouracil	F	OH
CF_3	O-acyl	Br	S	8-Fluoroguanine	F	OH
CF_3	O-acyl	Br	S	5-Fluorocytosine	F	OH
CF_3	O-acyl	Br	S	8-Fluoroadenine	F	OH
CF_3	O-acyl	Br	S	2-Fluoroadenine	F	OH
CF_3	O-acyl	Br	S	2,8-Difluoroadenine	F	OH
CF_3	O-acyl	Br	S	2-Fluorohypoxanthine	F	OH
CF_3	O-acyl	Br	S	8-Fluorohypoxanthine	F	OH
CF_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	F	OH
CF_3	O-acyl	Br	S	2-Aminoadenine	F	OH
CF_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	F	OH
CF_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	F	OH
CF_3	O-acyl	Br	S	2-Aminohypoxanthine	F	OH
CF_3	O-acyl	Br	S	2-N-acetylguanine	F	OH
CF_3	O-acyl	Br	S	4-N-acetylcytosine	F	OH
CF_3	O-acyl	Br	S	6-N-acetyladenine	F	OH
CF_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	F	OH
CF_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	F	OH
CF_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	F	OH
CF_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	F	OH
CF_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	F	OH
CF_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CF_3	O-acyl	Br	S	2-N-acetylaminoadenine	F	OH
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	F	OH
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CF_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	F	OH
CF_3	O-acyl	Br	S	Thymine	Br	H
CF_3	O-acyl	Br	S	Uracil	Br	H
CF_3	O-acyl	Br	S	Guanine	Br	H

Gilead Exhibit 2015
PGR2023-00046 - Page 00848

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	S	Cytosine	Br	H
CF_3	O-acyl	Br	S	Adenine	Br	H
CF_3	O-acyl	Br	S	Hypoxanthine	Br	H
CF_3	O-acyl	Br	S	5-Fluorouracil	Br	H
CF_3	O-acyl	Br	S	8-Fluoroguanine	Br	H
CF_3	O-acyl	Br	S	5-Fluorocytosine	Br	H
CF_3	O-acyl	Br	S	8-Fluoroadenine	Br	H
CF_3	O-acyl	Br	S	2-Fluoroadenine	Br	H
CF_3	O-acyl	Br	S	2,8-Difluoroadenine	Br	H
CF_3	O-acyl	Br	S	2-Fluorohypoxanthine	Br	H
CF_3	O-acyl	Br	S	8-Fluorohypoxanthine	Br	H
CF_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	Br	H
CF_3	O-acyl	Br	S	2-Aminoadenine	Br	H
CF_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	Br	H
CF_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	Br	H
CF_3	O-acyl	Br	S	2-Aminohypoxanthine	Br	H
CF_3	O-acyl	Br	S	2-N-acetylguanine	Br	H
CF_3	O-acyl	Br	S	4-N-acetylcytosine	Br	H
CF_3	O-acyl	Br	S	6-N-acetyladenine	Br	H
CF_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	Br	H
CF_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	Br	H
CF_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	Br	H
CF_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	H
CF_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	Br	H
CF_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CF_3	O-acyl	Br	S	2-N-acetylaminoadenine	Br	H
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	Br	H
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CF_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	Br	H
CF_3	O-acyl	Br	S	Thymine	Br	O-amino acid
CF_3	O-acyl	Br	S	Uracil	Br	O-amino acid
CF_3	O-acyl	Br	S	Guanine	Br	O-amino acid
CF_3	O-acyl	Br	S	Cytosine	Br	O-amino acid
CF_3	O-acyl	Br	S	Adenine	Br	O-amino acid
CF_3	O-acyl	Br	S	Hypoxanthine	Br	O-amino acid
CF_3	O-acyl	Br	S	5-Fluorouracil	Br	O-amino acid
CF_3	O-acyl	Br	S	8-Fluoroguanine	Br	O-amino acid
CF_3	O-acyl	Br	S	5-Fluorocytosine	Br	O-amino acid
CF_3	O-acyl	Br	S	8-Fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Br	S	2-Fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Br	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	O-acyl	Br	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Br	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Br	S	2-Aminoadenine	Br	O-amino acid
CF_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid

Gilead Exhibit 2015
PGR2023-00046 - Page 00849

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylguanine	Br	O-amino acid
CF_3	O-acyl	Br	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyladenine	Br	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Br	S	Thymine	Br	O-acyl
CF_3	O-acyl	Br	S	Uracil	Br	O-acyl
CF_3	O-acyl	Br	S	Guanine	Br	O-acyl
CF_3	O-acyl	Br	S	Cytosine	Br	O-acyl
CF_3	O-acyl	Br	S	Adenine	Br	O-acyl
CF_3	O-acyl	Br	S	Hypoxanthine	Br	O-acyl
CF_3	O-acyl	Br	S	5-Fluorouracil	Br	O-acyl
CF_3	O-acyl	Br	S	8-Fluoroguanine	Br	O-acyl
CF_3	O-acyl	Br	S	5-Fluorocytosine	Br	O-acyl
CF_3	O-acyl	Br	S	8-Fluoroadenine	Br	O-acyl
CF_3	O-acyl	Br	S	2-Fluoroadenine	Br	O-acyl
CF_3	O-acyl	Br	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	O-acyl	Br	S	2-Fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	Br	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	Br	S	2-Aminoadenine	Br	O-acyl
CF_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	Br	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylguanine	Br	O-acyl
CF_3	O-acyl	Br	S	4-N-acetylcytosine	Br	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyladenine	Br	O-acyl
CF_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	O-acyl	Br	S	Thymine	Br	OH

Gilead Exhibit 2015
PGR2023-00046 - Page 00850

R^8	R^7	R^9	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	S	Uracil	Br	OH
CF_3	O-acyl	Br	S	Guanine	Br	OH
CF_3	O-acyl	Br	S	Cytosine	Br	OH
CF_3	O-acyl	Br	S	Adenine	Br	OH
CF_3	O-acyl	Br	S	Hypoxanthine	Br	OH
CF_3	O-acyl	Br	S	5-Fluorouracil	Br	OH
CF_3	O-acyl	Br	S	8-Fluoroguanine	Br	OH
CF_3	O-acyl	Br	S	5-Fluorocytosine	Br	OH
CF_3	O-acyl	Br	S	8-Fluoroadenine	Br	OH
CF_3	O-acyl	Br	S	2-Fluoroadenine	Br	OH
CF_3	O-acyl	Br	S	2,8-Difluoroadenine	Br	OH
CF_3	O-acyl	Br	S	2-Fluorohypoxanthine	Br	OH
CF_3	O-acyl	Br	S	8-Fluorohypoxanthine	Br	OH
CF_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	Br	OH
CF_3	O-acyl	Br	S	2-Aminoadenine	Br	OH
CF_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	Br	OH
CF_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	Br	OH
CF_3	O-acyl	Br	S	2-Aminohypoxanthine	Br	OH
CF_3	O-acyl	Br	S	2-N-acetylguanine	Br	OH
CF_3	O-acyl	Br	S	4-N-acetylcytosine	Br	OH
CF_3	O-acyl	Br	S	6-N-acetyladenine	Br	OH
CF_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	Br	OH
CF_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	Br	OH
CF_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	Br	OH
CF_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	OH
CF_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	Br	OH
CF_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CF_3	O-acyl	Br	S	2-N-acetylaminoadenine	Br	OH
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	Br	OH
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CF_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	Br	OH
CF_3	O-acyl	Br	S	Thymine	Cl	H
CF_3	O-acyl	Br	S	Uracil	Cl	H
CF_3	O-acyl	Br	S	Guanine	Cl	H
CF_3	O-acyl	Br	S	Cytosine	Cl	H
CF_3	O-acyl	Br	S	Adenine	Cl	H
CF_3	O-acyl	Br	S	Hypoxanthine	Cl	H
CF_3	O-acyl	Br	S	5-Fluorouracil	Cl	H
CF_3	O-acyl	Br	S	8-Fluoroguanine	Cl	H
CF_3	O-acyl	Br	S	5-Fluorocytosine	Cl	H
CF_3	O-acyl	Br	S	8-Fluoroadenine	Cl	H
CF_3	O-acyl	Br	S	2-Fluoroadenine	Cl	H
CF_3	O-acyl	Br	S	2,8-Difluoroadenine	Cl	H
CF_3	O-acyl	Br	S	2-Fluorohypoxanthine	Cl	H
CF_3	O-acyl	Br	S	8-Fluorohypoxanthine	Cl	H
CF_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	Cl	H
CF_3	O-acyl	Br	S	2-Aminoadenine	Cl	H

Gilead Exhibit 2015
PGR2023-00046 - Page 00851

R^6	R^7	R^8	X	Base	R^{18}	R^9
CF_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	Cl	H
CF_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	Cl	H
CF_3	O-acyl	Br	S	2-Aminohypoxanthine	Cl	H
CF_3	O-acyl	Br	S	2-N-acetylguanine	Cl	H
CF_3	O-acyl	Br	S	4-N-acetylcytosine	Cl	H
CF_3	O-acyl	Br	S	6-N-acetyladenine	Cl	H
CF_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	Cl	H
CF_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	Cl	H
CF_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	Cl	H
CF_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	H
CF_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	Cl	H
CF_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CF_3	O-acyl	Br	S	2-N-acetylaminoadenine	Cl	H
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	H
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CF_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	Cl	H
CF_3	O-acyl	Br	S	Thymine	Cl	O-amino acid
CF_3	O-acyl	Br	S	Uracil	Cl	O-amino acid
CF_3	O-acyl	Br	S	Guanine	Cl	O-amino acid
CF_3	O-acyl	Br	S	Cytosine	Cl	O-amino acid
CF_3	O-acyl	Br	S	Adenine	Cl	O-amino acid
CF_3	O-acyl	Br	S	Hypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Br	S	5-Fluorouracil	Cl	O-amino acid
CF_3	O-acyl	Br	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	O-acyl	Br	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	O-acyl	Br	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Br	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Br	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Br	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Br	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Br	S	2-Aminoadenine	Cl	O-amino acid
CF_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Br	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	O-acyl	Br	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid

Gilead Exhibit 2015
PGR2023-00046 - Page 00852

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Br	S	Thymine	Cl	O-acyl
CF_3	O-acyl	Br	S	Uracil	Cl	O-acyl
CF_3	O-acyl	Br	S	Guanine	Cl	O-acyl
CF_3	O-acyl	Br	S	Cytosine	Cl	O-acyl
CF_3	O-acyl	Br	S	Adenine	Cl	O-acyl
CF_3	O-acyl	Br	S	Hypoxanthine	Cl	O-acyl
CF_3	O-acyl	Br	S	5-Fluorouracil	Cl	O-acyl
CF_3	O-acyl	Br	S	8-Fluoroguanine	Cl	O-acyl
CF_3	O-acyl	Br	S	5-Fluorocytosine	Cl	O-acyl
CF_3	O-acyl	Br	S	8-Fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Br	S	2-Fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Br	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	O-acyl	Br	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Br	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Br	S	2-Aminoadenine	Cl	O-acyl
CF_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Br	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylguanine	Cl	O-acyl
CF_3	O-acyl	Br	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyladenine	Cl	O-acyl
CF_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Br	S	Thymine	Cl	OH
CF_3	O-acyl	Br	S	Uracil	Cl	OH
CF_3	O-acyl	Br	S	Guanine	Cl	OH
CF_3	O-acyl	Br	S	Cytosine	Cl	OH
CF_3	O-acyl	Br	S	Adenine	Cl	OH
CF_3	O-acyl	Br	S	Hypoxanthine	Cl	OH
CF_3	O-acyl	Br	S	5-Fluorouracil	Cl	OH
CF_3	O-acyl	Br	S	8-Fluoroguanine	Cl	OH
CF_3	O-acyl	Br	S	5-Fluorocytosine	Cl	OH
CF_3	O-acyl	Br	S	8-Fluoroadenine	Cl	OH
CF_3	O-acyl	Br	S	2-Fluoroadenine	Cl	OH
CF_3	O-acyl	Br	S	2,8-Difluoroadenine	Cl	OH
CF_3	O-acyl	Br	S	2-Fluorohypoxanthine	Cl	OH
CF_3	O-acyl	Br	S	8-Fluorohypoxanthine	Cl	OH

Gilead Exhibit 2015
PGR2023-00046 - Page 00853

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	Cl	OH
CF_3	O-acyl	Br	S	2-Aminoadenine	Cl	OH
CF_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	Cl	OH
CF_3	O-acyl	Br	S	2-Aminohypoxanthine	Cl	OH
CF_3	O-acyl	Br	S	2-N-acetylguanine	Cl	OH
CF_3	O-acyl	Br	S	4-N-acetylcytosine	Cl	OH
CF_3	O-acyl	Br	S	6-N-acetyladenine	Cl	OH
CF_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	Cl	OH
CF_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	Cl	OH
CF_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	Cl	OH
CF_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CF_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	Cl	OH
CF_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	Br	S	2-N-acetylaminoadenine	Cl	OH
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CF_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	Cl	OH
CF_3	O-acyl	Br	S	Thymine	H	H
CF_3	O-acyl	Br	S	Uracil	H	H
CF_3	O-acyl	Br	S	Guanine	H	H
CF_3	O-acyl	Br	S	Cytosine	H	H
CF_3	O-acyl	Br	S	Adenine	H	H
CF_3	O-acyl	Br	S	Hypoxanthine	H	H
CF_3	O-acyl	Br	S	5-Fluorouracil	H	H
CF_3	O-acyl	Br	S	8-Fluoroguanine	H	H
CF_3	O-acyl	Br	S	5-Fluorocytosine	H	H
CF_3	O-acyl	Br	S	8-Fluoroadenine	H	H
CF_3	O-acyl	Br	S	2-Fluoroadenine	H	H
CF_3	O-acyl	Br	S	2,8-Difluoroadenine	H	H
CF_3	O-acyl	Br	S	2-Fluorohypoxanthine	H	H
CF_3	O-acyl	Br	S	8-Fluorohypoxanthine	H	H
CF_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	H	H
CF_3	O-acyl	Br	S	2-Aminoadenine	H	H
CF_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	H	H
CF_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	H	H
CF_3	O-acyl	Br	S	2-Aminohypoxanthine	H	H
CF_3	O-acyl	Br	S	2-N-acetylguanine	H	H
CF_3	O-acyl	Br	S	4-N-acetylcytosine	H	H
CF_3	O-acyl	Br	S	6-N-acetyladenine	H	H
CF_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	H	H
CF_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	H	H
CF_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	H	H
CF_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	H	H
CF_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	H	H
CF_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CF_3	O-acyl	Br	S	2-N-acetylaminoadenine	H	H

Gilead Exhibit 2015
PGR2023-00046 - Page 00854

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	H	H
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	H
CF_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	H	H
CF_3	O-acyl	Br	S	Thymine	H	O-amino acid
CF_3	O-acyl	Br	S	Uracil	H	O-amino acid
CF_3	O-acyl	Br	S	Guanine	H	O-amino acid
CF_3	O-acyl	Br	S	Cytosine	H	O-amino acid
CF_3	O-acyl	Br	S	Adenine	H	O-amino acid
CF_3	O-acyl	Br	S	Hypoxanthine	H	O-amino acid
CF_3	O-acyl	Br	S	5-Fluorouracil	H	O-amino acid
CF_3	O-acyl	Br	S	8-Fluoroguanine	H	O-amino acid
CF_3	O-acyl	Br	S	5-Fluorocytosine	H	O-amino acid
CF_3	O-acyl	Br	S	8-Fluoroadenine	H	O-amino acid
CF_3	O-acyl	Br	S	2-Fluoroadenine	H	O-amino acid
CF_3	O-acyl	Br	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	O-acyl	Br	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	Br	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	Br	S	2-Aminoadenine	H	O-amino acid
CF_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	Br	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylguanine	H	O-amino acid
CF_3	O-acyl	Br	S	4-N-acetylcytosine	H	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyladenine	H	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	O-acyl	Br	S	Thymine	H	O-acyl
CF_3	O-acyl	Br	S	Uracil	H	O-acyl
CF_3	O-acyl	Br	S	Guanine	H	O-acyl
CF_3	O-acyl	Br	S	Cytosine	H	O-acyl
CF_3	O-acyl	Br	S	Adenine	H	O-acyl
CF_3	O-acyl	Br	S	Hypoxanthine	H	O-acyl
CF_3	O-acyl	Br	S	5-Fluorouracil	H	O-acyl
CF_3	O-acyl	Br	S	8-Fluoroguanine	H	O-acyl
CF_3	O-acyl	Br	S	5-Fluorocytosine	H	O-acyl
CF_3	O-acyl	Br	S	8-Fluoroadenine	H	O-acyl
CF_3	O-acyl	Br	S	2-Fluoroadenine	H	O-acyl
CF_3	O-acyl	Br	S	2,8-Difluoroadenine	H	O-acyl

Gilead Exhibit 2015
PGR2023-00046 - Page 00855

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	Br	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	O-acyl	Br	S	2-Aminoadenine	H	O-acyl
CF_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	Br	S	2-Aminohypoxanthine	H	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylguanine	H	O-acyl
CF_3	O-acyl	Br	S	4-N-acetylcytosine	H	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyladenine	H	O-acyl
CF_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	O-acyl	Br	S	Thymine	H	OH
CF_3	O-acyl	Br	S	Uracil	H	OH
CF_3	O-acyl	Br	S	Guanine	H	OH
CF_3	O-acyl	Br	S	Cytosine	H	OH
CF_3	O-acyl	Br	S	Adenine	H	OH
CF_3	O-acyl	Br	S	Hypoxanthine	H	OH
CF_3	O-acyl	Br	S	5-Fluorouracil	H	OH
CF_3	O-acyl	Br	S	8-Fluoroguanine	H	OH
CF_3	O-acyl	Br	S	5-Fluorocytosine	H	OH
CF_3	O-acyl	Br	S	8-Fluoroadenine	H	OH
CF_3	O-acyl	Br	S	2-Fluoroadenine	H	OH
CF_3	O-acyl	Br	S	2,8-Difluoroadenine	H	OH
CF_3	O-acyl	Br	S	2-Fluorohypoxanthine	H	OH
CF_3	O-acyl	Br	S	8-Fluorohypoxanthine	H	OH
CF_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	H	OH
CF_3	O-acyl	Br	S	2-Aminoadenine	H	OH
CF_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	H	OH
CF_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	H	OH
CF_3	O-acyl	Br	S	2-Aminohypoxanthine	H	OH
CF_3	O-acyl	Br	S	2-N-acetylguanine	H	OH
CF_3	O-acyl	Br	S	4-N-acetylcytosine	H	OH
CF_3	O-acyl	Br	S	6-N-acetyladenine	H	OH
CF_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	H	OH
CF_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	H	OH
CF_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	H	OH
CF_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	H	OH
CF_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	H	OH

Gilead Exhibit 2015
PGR2023-00046 - Page 00856

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CF_3	O-acyl	Br	S	2-N-acetylaminoadenine	H	OH
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	H	OH
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CF_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	H	OH
CF_3	O-acyl	Br	S	Thymine	OH	H
CF_3	O-acyl	Br	S	Uracil	OH	H
CF_3	O-acyl	Br	S	Guanine	OH	H
CF_3	O-acyl	Br	S	Cytosine	OH	H
CF_3	O-acyl	Br	S	Adenine	OH	H
CF_3	O-acyl	Br	S	Hypoxanthine	OH	H
CF_3	O-acyl	Br	S	5-Fluorouracil	OH	H
CF_3	O-acyl	Br	S	8-Fluoroguanine	OH	H
CF_3	O-acyl	Br	S	5-Fluorocytosine	OH	H
CF_3	O-acyl	Br	S	8-Fluoroadenine	OH	H
CF_3	O-acyl	Br	S	2-Fluoroadenine	OH	H
CF_3	O-acyl	Br	S	2,8-Difluoroadenine	OH	H
CF_3	O-acyl	Br	S	2-Fluorohypoxanthine	OH	H
CF_3	O-acyl	Br	S	8-Fluorohypoxanthine	OH	H
CF_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	OH	H
CF_3	O-acyl	Br	S	2-Aminoadenine	OH	H
CF_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	OH	H
CF_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	OH	H
CF_3	O-acyl	Br	S	2-Aminohypoxanthine	OH	H
CF_3	O-acyl	Br	S	2-N-acetylguanine	OH	H
CF_3	O-acyl	Br	S	4-N-acetylcytosine	OH	H
CF_3	O-acyl	Br	S	6-N-acetyladenine	OH	H
CF_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	OH	H
CF_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	OH	H
CF_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	OH	H
CF_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	OH	H
CF_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	OH	H
CF_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CF_3	O-acyl	Br	S	2-N-acetylaminoadenine	OH	H
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	OH	H
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CF_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	OH	H
CF_3	O-acyl	Cl	S	Thymine	F	H
CF_3	O-acyl	Cl	S	Uracil	F	H
CF_3	O-acyl	Cl	S	Guanine	F	H
CF_3	O-acyl	Cl	S	Cytosine	F	H
CF_3	O-acyl	Cl	S	Adenine	F	H
CF_3	O-acyl	Cl	S	Hypoxanthine	F	H
CF_3	O-acyl	Cl	S	5-Fluorouracil	F	H
CF_3	O-acyl	Cl	S	8-Fluoroguanine	F	H
CF_3	O-acyl	Cl	S	5-Fluorocytosine	F	H
CF_3	O-acyl	Cl	S	8-Fluoroadenine	F	H

Gilead Exhibit 2015
PGR2023-00046 - Page 00857

R^6	R^7	R^8	X	Base	R^{16}	R^9
CF_3	O-acyl	Cl	S	2-Fluoroadenine	F	H
CF_3	O-acyl	Cl	S	2,8-Difluoroadenine	F	H
CF_3	O-acyl	Cl	S	2-Fluorohypoxanthine	F	H
CF_3	O-acyl	Cl	S	8-Fluorohypoxanthine	F	H
CF_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	F	H
CF_3	O-acyl	Cl	S	2-Aminoadenine	F	H
CF_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	F	H
CF_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	F	H
CF_3	O-acyl	Cl	S	2-Aminohypoxanthine	F	H
CF_3	O-acyl	Cl	S	2-N-acetylguanine	F	H
CF_3	O-acyl	Cl	S	4-N-acetylcytosine	F	H
CF_3	O-acyl	Cl	S	6-N-acetyladenine	F	H
CF_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	F	H
CF_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	F	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	F	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	F	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CF_3	O-acyl	Cl	S	2-N-acetylaminoadenine	F	H
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	F	H
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	H
CF_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	F	H
CF_3	O-acyl	Cl	S	Thymine	F	O-amino acid
CF_3	O-acyl	Cl	S	Uracil	F	O-amino acid
CF_3	O-acyl	Cl	S	Guanine	F	O-amino acid
CF_3	O-acyl	Cl	S	Cytosine	F	O-amino acid
CF_3	O-acyl	Cl	S	Adenine	F	O-amino acid
CF_3	O-acyl	Cl	S	Hypoxanthine	F	O-amino acid
CF_3	O-acyl	Cl	S	5-Fluorouracil	F	O-amino acid
CF_3	O-acyl	Cl	S	8-Fluoroguanine	F	O-amino acid
CF_3	O-acyl	Cl	S	5-Fluorocytosine	F	O-amino acid
CF_3	O-acyl	Cl	S	8-Fluoroadenine	F	O-amino acid
CF_3	O-acyl	Cl	S	2-Fluoroadenine	F	O-amino acid
CF_3	O-acyl	Cl	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	O-acyl	Cl	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	Cl	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	Cl	S	2-Aminoadenine	F	O-amino acid
CF_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	Cl	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylguanine	F	O-amino acid
CF_3	O-acyl	Cl	S	4-N-acetylcytosine	F	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyladenine	F	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid

Gilead Exhibit 2015
PGR2023-00046 - Page 00858

R^5	R^2	R^3	X	Base	R^{1B}	R^3
CF_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	O-acyl	Cl	S	Thymine	F	O-acyl
CF_3	O-acyl	Cl	S	Uracil	F	O-acyl
CF_3	O-acyl	Cl	S	Guanine	F	O-acyl
CF_3	O-acyl	Cl	S	Cytosine	F	O-acyl
CF_3	O-acyl	Cl	S	Adenine	F	O-acyl
CF_3	O-acyl	Cl	S	Hypoxanthine	F	O-acyl
CF_3	O-acyl	Cl	S	5-Fluorouracil	F	O-acyl
CF_3	O-acyl	Cl	S	8-Fluoroguanine	F	O-acyl
CF_3	O-acyl	Cl	S	5-Fluorocytosine	F	O-acyl
CF_3	O-acyl	Cl	S	8-Fluoroadenine	F	O-acyl
CF_3	O-acyl	Cl	S	2-Fluoroadenine	F	O-acyl
CF_3	O-acyl	Cl	S	2,8-Difluoroadenine	F	O-acyl
CF_3	O-acyl	Cl	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	Cl	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	O-acyl	Cl	S	2-Aminoadenine	F	O-acyl
CF_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	Cl	S	2-Aminohypoxanthine	F	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylguanine	F	O-acyl
CF_3	O-acyl	Cl	S	4-N-acetylcytosine	F	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyladenine	F	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	O-acyl	Cl	S	Thymine	F	OH
CF_3	O-acyl	Cl	S	Uracil	F	OH
CF_3	O-acyl	Cl	S	Guanine	F	OH
CF_3	O-acyl	Cl	S	Cytosine	F	OH
CF_3	O-acyl	Cl	S	Adenine	F	OH
CF_3	O-acyl	Cl	S	Hypoxanthine	F	OH
CF_3	O-acyl	Cl	S	5-Fluorouracil	F	OH
CF_3	O-acyl	Cl	S	8-Fluoroguanine	F	OH

Gilead Exhibit 2015
PGR2023-00046 - Page 00859

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	S	5-Fluorocytosine	F	OH
CF_3	O-acyl	Cl	S	8-Fluoroadenine	F	OH
CF_3	O-acyl	Cl	S	2-Fluoroadenine	F	OH
CF_3	O-acyl	Cl	S	2,8-Difluoroadenine	F	OH
CF_3	O-acyl	Cl	S	2-Fluorohypoxanthine	F	OH
CF_3	O-acyl	Cl	S	8-Fluorohypoxanthine	F	OH
CF_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	F	OH
CF_3	O-acyl	Cl	S	2-Aminoadenine	F	OH
CF_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	F	OH
CF_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	F	OH
CF_3	O-acyl	Cl	S	2-Aminohypoxanthine	F	OH
CF_3	O-acyl	Cl	S	2-N-acetylguanine	F	OH
CF_3	O-acyl	Cl	S	4-N-acetylcytosine	F	OH
CF_3	O-acyl	Cl	S	6-N-acetyladenine	F	OH
CF_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	F	OH
CF_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	F	OH
CF_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	F	OH
CF_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	OH
CF_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	F	OH
CF_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CF_3	O-acyl	Cl	S	2-N-acetylaminoadenine	F	OH
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	F	OH
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CF_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	F	OH
CF_3	O-acyl	Cl	S	Thymine	Br	H
CF_3	O-acyl	Cl	S	Uracil	Br	H
CF_3	O-acyl	Cl	S	Guanine	Br	H
CF_3	O-acyl	Cl	S	Cytosine	Br	H
CF_3	O-acyl	Cl	S	Adenine	Br	H
CF_3	O-acyl	Cl	S	Hypoxanthine	Br	H
CF_3	O-acyl	Cl	S	5-Fluorouracil	Br	H
CF_3	O-acyl	Cl	S	8-Fluoroguanine	Br	H
CF_3	O-acyl	Cl	S	5-Fluorocytosine	Br	H
CF_3	O-acyl	Cl	S	8-Fluoroadenine	Br	H
CF_3	O-acyl	Cl	S	2-Fluoroadenine	Br	H
CF_3	O-acyl	Cl	S	2,8-Difluoroadenine	Br	H
CF_3	O-acyl	Cl	S	2-Fluorohypoxanthine	Br	H
CF_3	O-acyl	Cl	S	8-Fluorohypoxanthine	Br	H
CF_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	Br	H
CF_3	O-acyl	Cl	S	2-Aminoadenine	Br	H
CF_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	Br	H
CF_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	Br	H
CF_3	O-acyl	Cl	S	2-Aminohypoxanthine	Br	H
CF_3	O-acyl	Cl	S	2-N-acetylguanine	Br	H
CF_3	O-acyl	Cl	S	4-N-acetylcytosine	Br	H
CF_3	O-acyl	Cl	S	6-N-acetyladenine	Br	H
CF_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	Br	H

Gilead Exhibit 2015
PGR2023-00046 - Page 00860

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	Br	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	Br	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	Br	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CF_3	O-acyl	Cl	S	2-N-acetylaminoadenine	Br	H
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	H
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CF_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	Br	H
CF_3	O-acyl	Cl	S	Thymine	Br	O-amino acid
CF_3	O-acyl	Cl	S	Uracil	Br	O-amino acid
CF_3	O-acyl	Cl	S	Guanine	Br	O-amino acid
CF_3	O-acyl	Cl	S	Cytosine	Br	O-amino acid
CF_3	O-acyl	Cl	S	Adenine	Br	O-amino acid
CF_3	O-acyl	Cl	S	Hypoxanthine	Br	O-amino acid
CF_3	O-acyl	Cl	S	5-Fluorouracil	Br	O-amino acid
CF_3	O-acyl	Cl	S	8-Fluoroguanine	Br	O-amino acid
CF_3	O-acyl	Cl	S	5-Fluorocytosine	Br	O-amino acid
CF_3	O-acyl	Cl	S	8-Fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Cl	S	2-Fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Cl	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	O-acyl	Cl	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Cl	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Cl	S	2-Aminoadenine	Br	O-amino acid
CF_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Cl	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylguanine	Br	O-amino acid
CF_3	O-acyl	Cl	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyladenine	Br	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Cl	S	Thymine	Br	O-acyl
CF_3	O-acyl	Cl	S	Uracil	Br	O-acyl
CF_3	O-acyl	Cl	S	Guanine	Br	O-acyl
CF_3	O-acyl	Cl	S	Cytosine	Br	O-acyl
CF_3	O-acyl	Cl	S	Adenine	Br	O-acyl
CF_3	O-acyl	Cl	S	Hypoxanthine	Br	O-acyl

Gilead Exhibit 2015
PGR2023-00046 - Page 00861

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	S	5-Fluorouracil	Br	O-acyl
CF_3	O-acyl	Cl	S	8-Fluoroguanine	Br	O-acyl
CF_3	O-acyl	Cl	S	5-Fluorocytosine	Br	O-acyl
CF_3	O-acyl	Cl	S	8-Fluoroadenine	Br	O-acyl
CF_3	O-acyl	Cl	S	2-Fluoroadenine	Br	O-acyl
CF_3	O-acyl	Cl	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	O-acyl	Cl	S	2-Fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	Cl	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	Cl	S	2-Aminoadenine	Br	O-acyl
CF_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	Cl	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylguanine	Br	O-acyl
CF_3	O-acyl	Cl	S	4-N-acetylcytosine	Br	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyladenine	Br	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	O-acyl	Cl	S	Thymine	Br	OH
CF_3	O-acyl	Cl	S	Uracil	Br	OH
CF_3	O-acyl	Cl	S	Guanine	Br	OH
CF_3	O-acyl	Cl	S	Cytosine	Br	OH
CF_3	O-acyl	Cl	S	Adenine	Br	OH
CF_3	O-acyl	Cl	S	Hypoxanthine	Br	OH
CF_3	O-acyl	Cl	S	5-Fluorouracil	Br	OH
CF_3	O-acyl	Cl	S	8-Fluoroguanine	Br	OH
CF_3	O-acyl	Cl	S	5-Fluorocytosine	Br	OH
CF_3	O-acyl	Cl	S	8-Fluoroadenine	Br	OH
CF_3	O-acyl	Cl	S	2-Fluoroadenine	Br	OH
CF_3	O-acyl	Cl	S	2,8-Difluoroadenine	Br	OH
CF_3	O-acyl	Cl	S	2-Fluorohypoxanthine	Br	OH
CF_3	O-acyl	Cl	S	8-Fluorohypoxanthine	Br	OH
CF_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	Br	OH
CF_3	O-acyl	Cl	S	2-Aminoadenine	Br	OH
CF_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	Br	OH
CF_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	Br	OH
CF_3	O-acyl	Cl	S	2-Aminohypoxanthine	Br	OH
CF_3	O-acyl	Cl	S	2-N-acetylguanine	Br	OH
CF_3	O-acyl	Cl	S	4-N-acetylcytosine	Br	OH

Gilead Exhibit 2015
PGR2023-00046 - Page 00862

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	S	6-N-acetyladenine	Br	OH
CF_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	Br	OH
CF_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	Br	OH
CF_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	Br	OH
CF_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	OH
CF_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	Br	OH
CF_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CF_3	O-acyl	Cl	S	2-N-acetylaminoadenine	Br	OH
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	OH
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CF_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	Br	OH
CF_3	O-acyl	Cl	S	Thymine	Cl	H
CF_3	O-acyl	Cl	S	Uracil	Cl	H
CF_3	O-acyl	Cl	S	Guanine	Cl	H
CF_3	O-acyl	Cl	S	Cytosine	Cl	H
CF_3	O-acyl	Cl	S	Adenine	Cl	H
CF_3	O-acyl	Cl	S	Hypoxanthine	Cl	H
CF_3	O-acyl	Cl	S	5-Fluorouracil	Cl	H
CF_3	O-acyl	Cl	S	8-Fluoroguanine	Cl	H
CF_3	O-acyl	Cl	S	5-Fluorocytosine	Cl	H
CF_3	O-acyl	Cl	S	8-Fluoroadenine	Cl	H
CF_3	O-acyl	Cl	S	2-Fluoroadenine	Cl	H
CF_3	O-acyl	Cl	S	2,8-Difluoroadenine	Cl	H
CF_3	O-acyl	Cl	S	2-Fluorohypoxanthine	Cl	H
CF_3	O-acyl	Cl	S	8-Fluorohypoxanthine	Cl	H
CF_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	Cl	H
CF_3	O-acyl	Cl	S	2-Aminoadenine	Cl	H
CF_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	Cl	H
CF_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	H
CF_3	O-acyl	Cl	S	2-Aminohypoxanthine	Cl	H
CF_3	O-acyl	Cl	S	2-N-acetylguanine	Cl	H
CF_3	O-acyl	Cl	S	4-N-acetylcytosine	Cl	H
CF_3	O-acyl	Cl	S	6-N-acetyladenine	Cl	H
CF_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	H
CF_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	Cl	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CF_3	O-acyl	Cl	S	2-N-acetylaminoadenine	Cl	H
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	H
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CF_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	Cl	H
CF_3	O-acyl	Cl	S	Thymine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	Uracil	Cl	O-amino acid
CF_3	O-acyl	Cl	S	Guanine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	Cytosine	Cl	O-amine acid

Gilead Exhibit 2015
PGR2023-00046 - Page 00863

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	S	Adenine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	Hypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	5-Fluorouracil	Cl	O-amino acid
CF_3	O-acyl	Cl	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	2-Aminoadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	Thymine	Cl	O-acyl
CF_3	O-acyl	Cl	S	Uracil	Cl	O-acyl
CF_3	O-acyl	Cl	S	Guanine	Cl	O-acyl
CF_3	O-acyl	Cl	S	Cytosine	Cl	O-acyl
CF_3	O-acyl	Cl	S	Adenine	Cl	O-acyl
CF_3	O-acyl	Cl	S	Hypoxanthine	Cl	O-acyl
CF_3	O-acyl	Cl	S	5-Fluorouracil	Cl	O-acyl
CF_3	O-acyl	Cl	S	8-Fluoroguanine	Cl	O-acyl
CF_3	O-acyl	Cl	S	5-Fluorocytosine	Cl	O-acyl
CF_3	O-acyl	Cl	S	8-Fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Cl	S	2-Fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Cl	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	O-acyl	Cl	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Cl	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Cl	S	2-Aminoadenine	Cl	O-acyl
CF_3	O-acyl	Cl	S	2-Amino-8-fluoroadeaine	Cl	O-acyl
CF_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Cl	S	2-Aminohypoxanthine	Cl	O-acyl

Gilead Exhibit 2015
PGR2023-00046 - Page 00864

R^6	R^7	R^8	X	Base	R^{10}	R^5
CF_3	O-acyl	Cl	S	2-N-acetylguanine	Cl	O-acyl
CF_3	O-acyl	Cl	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyladenine	Cl	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Cl	S	Thymine	Cl	OH
CF_3	O-acyl	Cl	S	Uracil	Cl	OH
CF_3	O-acyl	Cl	S	Guanine	Cl	OH
CF_3	O-acyl	Cl	S	Cytosine	Cl	OH
CF_3	O-acyl	Cl	S	Adenine	Cl	OH
CF_3	O-acyl	Cl	S	Hypoxanthine	Cl	OH
CF_3	O-acyl	Cl	S	5-Fluorouracil	Cl	OH
CF_3	O-acyl	Cl	S	8-Fluoroguanine	Cl	OH
CF_3	O-acyl	Cl	S	5-Fluorocytosine	Cl	OH
CF_3	O-acyl	Cl	S	8-Fluoroadenine	Cl	OH
CF_3	O-acyl	Cl	S	2-Fluoroadenine	Cl	OH
CF_3	O-acyl	Cl	S	2,8-Difluoroadenine	Cl	OH
CF_3	O-acyl	Cl	S	2-Fluorohypoxanthine	Cl	OH
CF_3	O-acyl	Cl	S	8-Fluorohypoxanthine	Cl	OH
CF_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	Cl	OH
CF_3	O-acyl	Cl	S	2-Aminoadenine	Cl	OH
CF_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	OH
CF_3	O-acyl	Cl	S	2-Aminohypoxanthine	Cl	OH
CF_3	O-acyl	Cl	S	2-N-acetylguanine	Cl	OH
CF_3	O-acyl	Cl	S	4-N-acetylcytosine	Cl	OH
CF_3	O-acyl	Cl	S	6-N-acetyladenine	Cl	OH
CF_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	OH
CF_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	OH
CF_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	OH
CF_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CF_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	Cl	OH
CF_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	Cl	S	2-N-acetylaminoadenine	Cl	OH
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CF_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	Cl	OH
CF_3	O-acyl	Cl	S	Thymine	H	H
CF_3	O-acyl	Cl	S	Uracil	H	H

Gilead Exhibit 2015
PGR2023-00046 - Page 00865

R^5	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	S	Guanine	H	H
CF_3	O-acyl	Cl	S	Cytosine	H	H
CF_3	O-acyl	Cl	S	Adenine	H	H
CF_3	O-acyl	Cl	S	Hypoxanthine	H	H
CF_3	O-acyl	Cl	S	5-Fluorouracil	H	H
CF_3	O-acyl	Cl	S	8-Fluoroguanine	H	H
CF_3	O-acyl	Cl	S	5-Fluorocytosine	H	H
CF_3	O-acyl	Cl	S	8-Fluoroadenine	H	H
CF_3	O-acyl	Cl	S	2-Fluoroadenine	H	H
CF_3	O-acyl	Cl	S	2,8-Difluoroadenine	H	H
CF_3	O-acyl	Cl	S	2-Fluorohypoxanthine	H	H
CF_3	O-acyl	Cl	S	8-Fluorohypoxanthine	H	H
CF_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	H	H
CF_3	O-acyl	Cl	S	2-Aminoadenine	H	H
CF_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	H	H
CF_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	H	H
CF_3	O-acyl	Cl	S	2-Aminohypoxanthine	H	H
CF_3	O-acyl	Cl	S	2-N-acetylguanine	H	H
CF_3	O-acyl	Cl	S	4-N-acetylcytosine	H	H
CF_3	O-acyl	Cl	S	6-N-acetyladenine	H	H
CF_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	H	H
CF_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	H	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	H	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	H	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CF_3	O-acyl	Cl	S	2-N-acetylaminoadenine	H	H
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	H	H
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	H
CF_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	H	H
CF_3	O-acyl	Cl	S	Thymine	H	O-amino acid
CF_3	O-acyl	Cl	S	Uracil	H	O-amino acid
CF_3	O-acyl	Cl	S	Guanine	H	O-amino acid
CF_3	O-acyl	Cl	S	Cytosine	H	O-amino acid
CF_3	O-acyl	Cl	S	Adenine	H	O-amino acid
CF_3	O-acyl	Cl	S	Hypoxanthine	H	O-amino acid
CF_3	O-acyl	Cl	S	5-Fluorouracil	H	O-amino acid
CF_3	O-acyl	Cl	S	8-Fluoroguanine	H	O-amino acid
CF_3	O-acyl	Cl	S	5-Fluorocytosine	H	O-amino acid
CF_3	O-acyl	Cl	S	8-Fluoroadenine	H	O-amino acid
CF_3	O-acyl	Cl	S	2-Fluoroadenine	H	O-amino acid
CF_3	O-acyl	Cl	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	O-acyl	Cl	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	Cl	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	Cl	S	2-Aminoadenine	H	O-amino acid
CF_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	H	O-amino acid

Gilead Exhibit 2015
PGR2023-00046 - Page 00866

R^6	R^7	R^9	X	Base	R^{10}	R^2
CF_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	Cl	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylguanine	H	O-amino acid
CF_3	O-acyl	Cl	S	4-N-acetylcytosine	H	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyladenine	H	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	O-acyl	Cl	S	Thymine	H	O-acyl
CF_3	O-acyl	Cl	S	Uracil	H	O-acyl
CF_3	O-acyl	Cl	S	Guanine	H	O-acyl
CF_3	O-acyl	Cl	S	Cytosine	H	O-acyl
CF_3	O-acyl	Cl	S	Adenine	H	O-acyl
CF_3	O-acyl	Cl	S	Hypoxanthine	H	O-acyl
CF_3	O-acyl	Cl	S	5-Fluorouracil	H	O-acyl
CF_3	O-acyl	Cl	S	8-Fluoroguanine	H	O-acyl
CF_3	O-acyl	Cl	S	5-Fluorocytosine	H	O-acyl
CF_3	O-acyl	Cl	S	8-Fluoroadenine	H	O-acyl
CF_3	O-acyl	Cl	S	2-Fluoroadenine	H	O-acyl
CF_3	O-acyl	Cl	S	2,8-Difluoroadenine	H	O-acyl
CF_3	O-acyl	Cl	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	Cl	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	O-acyl	Cl	S	2-Aminoadenine	H	O-acyl
CF_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	Cl	S	2-Aminohypoxanthine	H	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylguanine	H	O-acyl
CF_3	O-acyl	Cl	S	4-N-acetylcytosine	H	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyladenine	H	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	H	O-acyl

Gilead Exhibit 2015
PGR2023-00046 - Page 00867

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	S	Thymine	H	OH
CF_3	O-acyl	Cl	S	Uracil	H	OH
CF_3	O-acyl	Cl	S	Guanine	H	OH
CF_3	O-acyl	Cl	S	Cytosine	H	OH
CF_3	O-acyl	Cl	S	Adenine	H	OH
CF_3	O-acyl	Cl	S	Hypoxanthine	H	OH
CF_3	O-acyl	Cl	S	5-Fluorouracil	H	OH
CF_3	O-acyl	Cl	S	8-Fluoroguanine	H	OH
CF_3	O-acyl	Cl	S	5-Fluorocytosine	H	OH
CF_3	O-acyl	Cl	S	8-Fluoroadenine	H	OH
CF_3	O-acyl	Cl	S	2-Fluoroadenine	H	OH
CF_3	O-acyl	Cl	S	2,8-Difluoroadenine	H	OH
CF_3	O-acyl	Cl	S	2-Fluorohypoxanthine	H	OH
CF_3	O-acyl	Cl	S	8-Fluorohypoxanthine	H	OH
CF_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	H	OH
CF_3	O-acyl	Cl	S	2-Aminoadenine	H	OH
CF_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	H	OH
CF_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	H	OH
CF_3	O-acyl	Cl	S	2-Aminohypoxanthine	H	OH
CF_3	O-acyl	Cl	S	2-N-acetylguanine	H	OH
CF_3	O-acyl	Cl	S	4-N-acetylcytosine	H	OH
CF_3	O-acyl	Cl	S	6-N-acetyladenine	H	OH
CF_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	H	OH
CF_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	H	OH
CF_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	H	OH
CF_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	OH
CF_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	H	OH
CF_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CF_3	O-acyl	Cl	S	2-N-acetylaminoadenine	H	OH
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	H	OH
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CF_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	H	OH
CF_3	O-acyl	Cl	S	Thymine	OH	H
CF_3	O-acyl	Cl	S	Uracil	OH	H
CF_3	O-acyl	Cl	S	Guanine	OH	H
CF_3	O-acyl	Cl	S	Cytosine	OH	H
CF_3	O-acyl	Cl	S	Adenine	OH	H
CF_3	O-acyl	Cl	S	Hypoxanthine	OH	H
CF_3	O-acyl	Cl	S	5-Fluorouracil	OH	H
CF_3	O-acyl	Cl	S	8-Fluoroguanine	OH	H
CF_3	O-acyl	Cl	S	5-Fluorocytosine	OH	H
CF_3	O-acyl	Cl	S	8-Fluoroadenine	OH	H
CF_3	O-acyl	Cl	S	2-Fluoroadenine	OH	H
CF_3	O-acyl	Cl	S	2,8-Difluoroadenine	OH	H
CF_3	O-acyl	Cl	S	2-Fluorohypoxanthine	OH	H
CF_3	O-acyl	Cl	S	8-Fluorohypoxanthine	OH	H
CF_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	OH	H

Gilead Exhibit 2015
PGR2023-00046 - Page 00868

R^6	R^7	R^9	X	Base	R^{10}	R^5
CF_3	O-acyl	Cl	S	2-Aminoadenine	OH	H
CF_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	OH	H
CF_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	OH	H
CF_3	O-acyl	Cl	S	2-Aminohypoxanthine	OH	H
CF_3	O-acyl	Cl	S	2-N-acetylguanine	OH	H
CF_3	O-acyl	Cl	S	4-N-acetylcytosine	OH	H
CF_3	O-acyl	Cl	S	6-N-acetyladenine	OH	H
CF_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	OH	H
CF_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	OH	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	OH	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	OH	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	OH	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CF_3	O-acyl	Cl	S	2-N-acetylaminoadenine	OH	H
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	OH	H
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CF_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	OH	H
CF_3	O-acyl	H	S	Thymine	F	H
CF_3	O-acyl	H	S	Uracil	F	H
CF_3	O-acyl	H	S	Guanine	F	H
CF_3	O-acyl	H	S	Cytosine	F	H
CF_3	O-acyl	H	S	Adenine	F	H
CF_3	O-acyl	H	S	Hypoxanthine	F	H
CF_3	O-acyl	H	S	5-Fluorouracil	F	H
CF_3	O-acyl	H	S	8-Fluoroguanine	F	H
CF_3	O-acyl	H	S	5-Fluorocytosine	F	H
CF_3	O-acyl	H	S	8-Fluoroadenine	F	H
CF_3	O-acyl	H	S	2-Fluoroadenine	F	H
CF_3	O-acyl	H	S	2,8-Difluoroadenine	F	H
CF_3	O-acyl	H	S	2-Fluorohypoxanthine	F	H
CF_3	O-acyl	H	S	8-Fluorohypoxanthine	F	H
CF_3	O-acyl	H	S	2,8-Difluorohypoxanthine	F	H
CF_3	O-acyl	H	S	2-Aminoadenine	F	H
CF_3	O-acyl	H	S	2-Amino-8-fluoroadenine	F	H
CF_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	F	H
CF_3	O-acyl	H	S	2-Aminohypoxanthine	F	H
CF_3	O-acyl	H	S	2-N-acetylguanine	F	H
CF_3	O-acyl	H	S	4-N-acetylcytosine	F	H
CF_3	O-acyl	H	S	6-N-acetyladenine	F	H
CF_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	F	H
CF_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	F	H
CF_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	F	H
CF_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	F	H
CF_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	F	H
CF_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CF_3	O-acyl	H	S	2-N-acetylaminoadenine	F	H
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	F	H

Gilead Exhibit 2015
PGR2023-00046 - Page 00869

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	H
CF_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	F	H
CF_3	O-acyl	H	S	Thymine	F	O-amino acid
CF_3	O-acyl	H	S	Uracil	F	O-amino acid
CF_3	O-acyl	H	S	Guanine	F	O-amino acid
CF_3	O-acyl	H	S	Cytosine	F	O-amino acid
CF_3	O-acyl	H	S	Adenine	F	O-amino acid
CF_3	O-acyl	H	S	Hypoxanthine	F	O-amino acid
CF_3	O-acyl	H	S	5-Fluorouracil	F	O-amino acid
CF_3	O-acyl	H	S	8-Fluoroguanine	F	O-amino acid
CF_3	O-acyl	H	S	5-Fluorocytosine	F	O-amino acid
CF_3	O-acyl	H	S	8-Fluoroadenine	F	O-amino acid
CF_3	O-acyl	H	S	2-Fluoroadenine	F	O-amino acid
CF_3	O-acyl	H	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	O-acyl	H	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	H	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	H	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	H	S	2-Aminoadenine	F	O-amino acid
CF_3	O-acyl	H	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	H	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylguanine	F	O-amino acid
CF_3	O-acyl	H	S	4-N-acetylcytosine	F	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyladenine	F	O-amino acid
CF_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	O-acyl	H	S	Thymine	F	O-acyl
CF_3	O-acyl	H	S	Uracil	F	O-acyl
CF_3	O-acyl	H	S	Guanine	F	O-acyl
CF_3	O-acyl	H	S	Cytosine	F	O-acyl
CF_3	O-acyl	H	S	Adenine	F	O-acyl
CF_3	O-acyl	H	S	Hypoxanthine	F	O-acyl
CF_3	O-acyl	H	S	5-Fluorouracil	F	O-acyl
CF_3	O-acyl	H	S	8-Fluoroguanine	F	O-acyl
CF_3	O-acyl	H	S	5-Fluorocytosine	F	O-acyl
CF_3	O-acyl	H	S	8-Fluoroadenine	F	O-acyl
CF_3	O-acyl	H	S	2-Fluoroadenine	F	O-acyl
CF_3	O-acyl	H	S	2,8-Difluoroadenine	F	O-acyl
CF_3	O-acyl	H	S	2-Fluorohypoxanthine	F	O-acyl

Gilead Exhibit 2015
PGR2023-00046 - Page 00870

R^5	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	H	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	O-acyl	H	S	2-Aminoadenine	F	O-acyl
CF_3	O-acyl	H	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	H	S	2-Aminohypoxanthine	F	O-acyl
CF_3	O-acyl	H	S	2-N-acetylguanine	F	O-acyl
CF_3	O-acyl	H	S	4-N-acetylcytosine	F	O-acyl
CF_3	O-acyl	H	S	6-N-acetyladenine	F	O-acyl
CF_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	H	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	O-acyl	H	S	Thymine	F	OH
CF_3	O-acyl	H	S	Uracil	F	OH
CF_3	O-acyl	H	S	Guanine	F	OH
CF_3	O-acyl	H	S	Cytosine	F	OH
CF_3	O-acyl	H	S	Adenine	F	OH
CF_3	O-acyl	H	S	Hypoxanthine	F	OH
CF_3	O-acyl	H	S	5-Fluorouracil	F	OH
CF_3	O-acyl	H	S	8-Fluoroguanine	F	OH
CF_3	O-acyl	H	S	5-Fluorocytosine	F	OH
CF_3	O-acyl	H	S	8-Fluoroadenine	F	OH
CF_3	O-acyl	H	S	2-Fluoroadenine	F	OH
CF_3	O-acyl	H	S	2,8-Difluoroadenine	F	OH
CF_3	O-acyl	H	S	2-Fluorohypoxanthine	F	OH
CF_3	O-acyl	H	S	8-Fluorohypoxanthine	F	OH
CF_3	O-acyl	H	S	2,8-Difluorohypoxanthine	F	OH
CF_3	O-acyl	H	S	2-Aminoadenine	F	OH
CF_3	O-acyl	H	S	2-Amino-8-fluoroadenine	F	OH
CF_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	F	OH
CF_3	O-acyl	H	S	2-Aminohypoxanthine	F	OH
CF_3	O-acyl	H	S	2-N-acetylguanine	F	OH
CF_3	O-acyl	H	S	4-N-acetylcytosine	F	OH
CF_3	O-acyl	H	S	6-N-acetyladenine	F	OH
CF_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	F	OH
CF_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	F	OH
CF_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	F	OH
CF_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	F	OH
CF_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	F	OH
CF_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	OH

Gilead Exhibit 2015
PGR2023-00046 - Page 00871

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	S	2-N-acetylaminoadenine	F	OH
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	F	OH
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CF_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	F	OH
CF_3	O-acyl	H	S	Thymine	Br	H
CF_3	O-acyl	H	S	Uracil	Br	H
CF_3	O-acyl	H	S	Guanine	Br	H
CF_3	O-acyl	H	S	Cytosine	Br	H
CF_3	O-acyl	H	S	Adenine	Br	H
CF_3	O-acyl	H	S	Hypoxanthine	Br	H
CF_3	O-acyl	H	S	5-Fluorouracil	Br	H
CF_3	O-acyl	H	S	8-Fluoroguanine	Br	H
CF_3	O-acyl	H	S	5-Fluorocytosine	Br	H
CF_3	O-acyl	H	S	8-Fluoroadenine	Br	H
CF_3	O-acyl	H	S	2-Fluoroadenine	Br	H
CF_3	O-acyl	H	S	2,8-Difluoroadenine	Br	H
CF_3	O-acyl	H	S	2-Fluorohypoxanthine	Br	H
CF_3	O-acyl	H	S	8-Fluorohypoxanthine	Br	H
CF_3	O-acyl	H	S	2,8-Difluorohypoxanthine	Br	H
CF_3	O-acyl	H	S	2-Aminoadenine	Br	H
CF_3	O-acyl	H	S	2-Amino-8-fluoroadenine	Br	H
CF_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	Br	H
CF_3	O-acyl	H	S	2-Aminohypoxanthine	Br	H
CF_3	O-acyl	H	S	2-N-acetylguanine	Br	H
CF_3	O-acyl	H	S	4-N-acetylcytosine	Br	H
CF_3	O-acyl	H	S	6-N-acetyladenine	Br	H
CF_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	Br	H
CF_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	Br	H
CF_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	Br	H
CF_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	Br	H
CF_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	Br	H
CF_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CF_3	O-acyl	H	S	2-N-acetylaminoadenine	Br	H
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	Br	H
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CF_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	Br	H
CF_3	O-acyl	H	S	Thymine	Br	O-amino acid
CF_3	O-acyl	H	S	Uracil	Br	O-amino acid
CF_3	O-acyl	H	S	Guanine	Br	O-amino acid
CF_3	O-acyl	H	S	Cytosine	Br	O-amino acid
CF_3	O-acyl	H	S	Adenine	Br	O-amino acid
CF_3	O-acyl	H	S	Hypoxanthine	Br	O-amino acid
CF_3	O-acyl	H	S	5-Fluorouracil	Br	O-amino acid
CF_3	O-acyl	H	S	8-Fluoroguanine	Br	O-amino acid
CF_3	O-acyl	H	S	5-Fluorocytosine	Br	O-amino acid
CF_3	O-acyl	H	S	8-Fluoroadenine	Br	O-amino acid
CF_3	O-acyl	H	S	2-Fluoroadenine	Br	O-amino acid

Gilead Exhibit 2015
PGR2023-00046 - Page 00872

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	O-acyl	H	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	H	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	H	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	H	S	2-Aminoadenine	Br	O-amino acid
CF_3	O-acyl	H	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	H	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylguanine	Br	O-amino acid
CF_3	O-acyl	H	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyladenine	Br	O-amino acid
CF_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	O-acyl	H	S	Thymine	Br	O-acyl
CF_3	O-acyl	H	S	Uracil	Br	O-acyl
CF_3	O-acyl	H	S	Guanine	Br	O-acyl
CF_3	O-acyl	H	S	Cytosine	Br	O-acyl
CF_3	O-acyl	H	S	Adenine	Br	O-acyl
CF_3	O-acyl	H	S	Hypoxanthine	Br	O-acyl
CF_3	O-acyl	H	S	5-Fluorouracil	Br	O-acyl
CF_3	O-acyl	H	S	8-Fluoroguanine	Br	O-acyl
CF_3	O-acyl	H	S	5-Fluorocytosine	Br	O-acyl
CF_3	O-acyl	H	S	8-Fluoroadenine	Br	O-acyl
CF_3	O-acyl	H	S	2-Fluoroadenine	Br	O-acyl
CF_3	O-acyl	H	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	O-acyl	H	S	2-Fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	H	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	H	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	H	S	2-Aminoadenine	Br	O-acyl
CF_3	O-acyl	H	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	H	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	O-acyl	H	S	2-N-acetylguanine	Br	O-acyl
CF_3	O-acyl	H	S	4-N-acetylcytosine	Br	O-acyl
CF_3	O-acyl	H	S	6-N-acetyladenine	Br	O-acyl
CF_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl

Gilead Exhibit 2015
PGR2023-00046 - Page 00873

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	H	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	O-acyl	H	S	Thymine	Br	OH
CF_3	O-acyl	H	S	Uracil	Br	OH
CF_3	O-acyl	H	S	Guanine	Br	OH
CF_3	O-acyl	H	S	Cytosine	Br	OH
CF_3	O-acyl	H	S	Adenine	Br	OH
CF_3	O-acyl	H	S	Hypoxanthine	Br	OH
CF_3	O-acyl	H	S	5-Fluorouracil	Br	OH
CF_3	O-acyl	H	S	8-Fluoroguanine	Br	OH
CF_3	O-acyl	H	S	5-Fluorocytosine	Br	OH
CF_3	O-acyl	H	S	8-Fluoroadenine	Br	OH
CF_3	O-acyl	H	S	2-Fluoroadenine	Br	OH
CF_3	O-acyl	H	S	2,8-Difluoroadenine	Br	OH
CF_3	O-acyl	H	S	2-Fluorohypoxanthine	Br	OH
CF_3	O-acyl	H	S	8-Fluorohypoxanthine	Br	OH
CF_3	O-acyl	H	S	2,8-Difluorohypoxanthine	Br	OH
CF_3	O-acyl	H	S	2-Aminoadenine	Br	OH
CF_3	O-acyl	H	S	2-Amino-8-fluoroadenine	Br	OH
CF_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	Br	OH
CF_3	O-acyl	H	S	2-Aminohypoxanthine	Br	OH
CF_3	O-acyl	H	S	2-N-acetylguanine	Br	OH
CF_3	O-acyl	H	S	4-N-acetylcytosine	Br	OH
CF_3	O-acyl	H	S	6-N-acetyladenine	Br	OH
CF_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	Br	OH
CF_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	Br	OH
CF_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	Br	OH
CF_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	Br	OH
CF_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	Br	OH
CF_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CF_3	O-acyl	H	S	2-N-acetylaminoadenine	Br	OH
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	Br	OH
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CF_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	Br	OH
CF_3	O-acyl	H	S	Thymine	Cl	H
CF_3	O-acyl	H	S	Uracil	Cl	H
CF_3	O-acyl	H	S	Guanine	Cl	H
CF_3	O-acyl	H	S	Cytosine	Cl	H
CF_3	O-acyl	H	S	Adenine	Cl	H
CF_3	O-acyl	H	S	Hypoxanthine	Cl	H
CF_3	O-acyl	H	S	5-Fluorouracil	Cl	H
CF_3	O-acyl	H	S	8-Fluoroguanine	Cl	H
CF_3	O-acyl	H	S	5-Fluorocytosine	Cl	H

Gilead Exhibit 2015
PGR2023-00046 - Page 00874

R^2	R^3	R^5	X	Base	R^{10}	R^9
CF_3	O-acyl	H	S	8-Fluoroadenine	Cl	H
CF_3	O-acyl	H	S	2-Fluoroadenine	Cl	H
CF_3	O-acyl	H	S	2,8-Difluoroadenine	Cl	H
CF_3	O-acyl	H	S	2-Fluorohypoxanthine	Cl	H
CF_3	O-acyl	H	S	8-Fluorohypoxanthine	Cl	H
CF_3	O-acyl	H	S	2,8-Difluorohypoxanthine	Cl	H
CF_3	O-acyl	H	S	2-Aminoadenine	Cl	H
CF_3	O-acyl	H	S	2-Amino-8-fluoroadenine	Cl	H
CF_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	Cl	H
CF_3	O-acyl	H	S	2-Aminohypoxanthine	Cl	H
CF_3	O-acyl	H	S	2-N-acetylguanine	Cl	H
CF_3	O-acyl	H	S	4-N-acetylcytosine	Cl	H
CF_3	O-acyl	H	S	6-N-acetyladenine	Cl	H
CF_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	Cl	H
CF_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	Cl	H
CF_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	Cl	H
CF_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	H
CF_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	Cl	H
CF_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CF_3	O-acyl	H	S	2-N-acetylaminoadenine	Cl	H
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	Cl	H
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CF_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	Cl	H
CF_3	O-acyl	H	S	Thymine	Cl	O-amino acid
CF_3	O-acyl	H	S	Uracil	Cl	O-amino acid
CF_3	O-acyl	H	S	Guanine	Cl	O-amino acid
CF_3	O-acyl	H	S	Cytosine	Cl	O-amino acid
CF_3	O-acyl	H	S	Adenine	Cl	O-amino acid
CF_3	O-acyl	H	S	Hypoxanthine	Cl	O-amino acid
CF_3	O-acyl	H	S	5-Fluorouracil	Cl	O-amino acid
CF_3	O-acyl	H	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	O-acyl	H	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	O-acyl	H	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	H	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	H	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	O-acyl	H	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	H	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	H	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	H	S	2-Aminoadenine	Cl	O-amino acid
CF_3	O-acyl	H	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	H	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	O-acyl	H	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid

Gilead Exhibit 2015
PGR2023-00046 - Page 00875

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	H	S	Thymine	Cl	O-acyl
CF_3	O-acyl	H	S	Uracil	Cl	O-acyl
CF_3	O-acyl	H	S	Guanine	Cl	O-acyl
CF_3	O-acyl	H	S	Cytosine	Cl	O-acyl
CF_3	O-acyl	H	S	Adenine	Cl	O-acyl
CF_3	O-acyl	H	S	Hypoxanthine	Cl	O-acyl
CF_3	O-acyl	H	S	5-Fluorouracil	Cl	O-acyl
CF_3	O-acyl	H	S	8-Fluoroguanine	Cl	O-acyl
CF_3	O-acyl	H	S	5-Fluorocytosine	Cl	O-acyl
CF_3	O-acyl	H	S	8-Fluoroadenine	Cl	O-acyl
CF_3	O-acyl	H	S	2-Fluoroadenine	Cl	O-acyl
CF_3	O-acyl	H	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	O-acyl	H	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	H	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	H	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	H	S	2-Aminoadenine	Cl	O-acyl
CF_3	O-acyl	H	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	H	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	O-acyl	H	S	2-N-acetylguanine	Cl	O-acyl
CF_3	O-acyl	H	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	O-acyl	H	S	6-N-acetyladenine	Cl	O-acyl
CF_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	H	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	O-acyl	H	S	Thymine	Cl	OH
CF_3	O-acyl	H	S	Uracil	Cl	OH
CF_3	O-acyl	H	S	Guanine	Cl	OH
CF_3	O-acyl	H	S	Cytosine	Cl	OH
CF_3	O-acyl	H	S	Adenine	Cl	OH
CF_3	O-acyl	H	S	Hypoxanthine	Cl	OH
CF_3	O-acyl	H	S	5-Fluorouracil	Cl	OH

Gilead Exhibit 2015
PGR2023-00046 - Page 00876

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	S	8-Fluoroguanine	Cl	OH
CF_3	O-acyl	H	S	5-Fluorocytosine	Cl	OH
CF_3	O-acyl	H	S	8-Fluoroadenine	Cl	OH
CF_3	O-acyl	H	S	2-Fluoroadenine	Cl	OH
CF_3	O-acyl	H	S	2,8-Difluoroadenine	Cl	OH
CF_3	O-acyl	H	S	2-Fluorohypoxanthine	Cl	OH
CF_3	O-acyl	H	S	8-Fluorohypoxanthine	Cl	OH
CF_3	O-acyl	H	S	2,8-Difluorohypoxanthine	Cl	OH
CF_3	O-acyl	H	S	2-Aminoadenine	Cl	OH
CF_3	O-acyl	H	S	2-Amino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	Cl	OH
CF_3	O-acyl	H	S	2-Aminohypoxanthine	Cl	OH
CF_3	O-acyl	H	S	2-N-acetylguanine	Cl	OH
CF_3	O-acyl	H	S	4-N-acetylcytosine	Cl	OH
CF_3	O-acyl	H	S	6-N-acetyladenine	Cl	OH
CF_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	Cl	OH
CF_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	Cl	OH
CF_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	Cl	OH
CF_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CF_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	Cl	OH
CF_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	H	S	2-N-acetylaminoadenine	Cl	OH
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CF_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	Cl	OH
CF_3	O-acyl	H	S	Thymine	H	H
CF_3	O-acyl	H	S	Uracil	H	H
CF_3	O-acyl	H	S	Guanine	H	H
CF_3	O-acyl	H	S	Cytosine	H	H
CF_3	O-acyl	H	S	Adenine	H	H
CF_3	O-acyl	H	S	Hypoxanthine	H	H
CF_3	O-acyl	H	S	5-Fluorouracil	H	H
CF_3	O-acyl	H	S	8-Fluoroguanine	H	H
CF_3	O-acyl	H	S	5-Fluorocytosine	H	H
CF_3	O-acyl	H	S	8-Fluoroadenine	H	H
CF_3	O-acyl	H	S	2-Fluoroadenine	H	H
CF_3	O-acyl	H	S	2,8-Difluoroadenine	H	H
CF_3	O-acyl	H	S	2-Fluorohypoxanthine	H	H
CF_3	O-acyl	H	S	8-Fluorohypoxanthine	H	H
CF_3	O-acyl	H	S	2,8-Difluorohypoxanthine	H	H
CF_3	O-acyl	H	S	2-Aminoadenine	H	H
CF_3	O-acyl	H	S	2-Amino-8-fluoroadenine	H	H
CF_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	H	H
CF_3	O-acyl	H	S	2-Aminohypoxanthine	H	H
CF_3	O-acyl	H	S	2-N-acetylguanine	H	H
CF_3	O-acyl	H	S	4-N-acetylcytosine	H	H
CF_3	O-acyl	H	S	6-N-acetyladenine	H	H

Gilead Exhibit 2015
PGR2023-00046 - Page 00877

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	H	H
CF_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	H	H
CF_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	H	H
CF_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	H	H
CF_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	H	H
CF_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CF_3	O-acyl	H	S	2-N-acetylaminoadenine	H	H
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	H	H
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	H
CF_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	H	H
CF_3	O-acyl	H	S	Thymine	H	O-amino acid
CF_3	O-acyl	H	S	Uracil	H	O-amino acid
CF_3	O-acyl	H	S	Guanine	H	O-amino acid
CF_3	O-acyl	H	S	Cytosine	H	O-amino acid
CF_3	O-acyl	H	S	Adenine	H	O-amino acid
CF_3	O-acyl	H	S	Hypoxanthine	H	O-amino acid
CF_3	O-acyl	H	S	5-Fluorouracil	H	O-amino acid
CF_3	O-acyl	H	S	8-Fluoroguanine	H	O-amino acid
CF_3	O-acyl	H	S	5-Fluorocytosine	H	O-amino acid
CF_3	O-acyl	H	S	8-Fluoroadenine	H	O-amino acid
CF_3	O-acyl	H	S	2-Fluoroadenine	H	O-amino acid
CF_3	O-acyl	H	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	O-acyl	H	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	H	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	H	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	H	S	2-Aminoadenine	H	O-amino acid
CF_3	O-acyl	H	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	H	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylguanine	H	O-amino acid
CF_3	O-acyl	H	S	4-N-acetylcytosine	H	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyladenine	H	O-amino acid
CF_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	O-acyl	H	S	Thymine	H	O-acyl
CF_3	O-acyl	H	S	Uracil	H	O-acyl
CF_3	O-acyl	H	S	Guanine	H	O-acyl
CF_3	O-acyl	H	S	Cytosine	H	O-acyl
CF_3	O-acyl	H	S	Adenine	H	O-acyl

Gilead Exhibit 2015
PGR2023-00046 - Page 00878

R[5]	R[3']	R[2']	X	Base	R[2]	R[3]
CF_3	O-acyl	H	S	Hypoxanthine	H	O-acyl
CF_3	O-acyl	H	S	5-Fluorouracil	H	O-acyl
CF_3	O-acyl	H	S	8-Fluoroguanine	H	O-acyl
CF_3	O-acyl	H	S	5-Fluorocytosine	H	O-acyl
CF_3	O-acyl	H	S	8-Fluoroadenine	H	O-acyl
CF_3	O-acyl	H	S	2-Fluoroadenine	H	O-acyl
CF_3	O-acyl	H	S	2,8-Difluoroadenine	H	O-acyl
CF_3	O-acyl	H	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	H	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	H	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	O-acyl	H	S	2-Aminoadenine	H	O-acyl
CF_3	O-acyl	H	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	H	S	2-Aminohypoxanthine	H	O-acyl
CF_3	O-acyl	H	S	2-N-acetylguanine	H	O-acyl
CF_3	O-acyl	H	S	4-N-acetylcytosine	H	O-acyl
CF_3	O-acyl	H	S	6-N-acetyladenine	H	O-acyl
CF_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	H	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	O-acyl	H	S	Thymine	H	OH
CF_3	O-acyl	H	S	Uracil	H	OH
CF_3	O-acyl	H	S	Guanine	H	OH
CF_3	O-acyl	H	S	Cytosine	H	OH
CF_3	O-acyl	H	S	Adenine	H	OH
CF_3	O-acyl	H	S	Hypoxanthine	H	OH
CF_3	O-acyl	H	S	5-Fluorouracil	H	OH
CF_3	O-acyl	H	S	8-Fluoroguanine	H	OH
CF_3	O-acyl	H	S	5-Fluorocytosine	H	OH
CF_3	O-acyl	H	S	8-Fluoroadenine	H	OH
CF_3	O-acyl	H	S	2-Fluoroadenine	H	OH
CF_3	O-acyl	H	S	2,8-Difluoroadenine	H	OH
CF_3	O-acyl	H	S	2-Fluorohypoxanthine	H	OH
CF_3	O-acyl	H	S	8-Fluorohypoxanthine	H	OH
CF_3	O-acyl	H	S	2,8-Difluorohypoxanthine	H	OH
CF_3	O-acyl	H	S	2-Aminoadenine	H	OH
CF_3	O-acyl	H	S	2-Amino-8-fluoroadenine	H	OH
CF_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	H	OH
CF_3	O-acyl	H	S	2-Aminohypoxanthine	H	OH
CF_3	O-acyl	H	S	2-N-acetylguanine	H	OH

Gilead Exhibit 2015
PGR2023-00046 - Page 00879

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	S	4-N-acetylcytosine	H	OH
CF_3	O-acyl	H	S	6-N-acetyladenine	H	OH
CF_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	H	OH
CF_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	H	OH
CF_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	H	OH
CF_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	H	OH
CF_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	H	OH
CF_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CF_3	O-acyl	H	S	2-N-acetylaminoadenine	H	OH
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	H	OH
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CF_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	H	OH
CF_3	O-acyl	H	S	Thymine	OH	H
CF_3	O-acyl	H	S	Uracil	OH	H
CF_3	O-acyl	H	S	Guanine	OH	H
CF_3	O-acyl	H	S	Cytosine	OH	H
CF_3	O-acyl	H	S	Adenine	OH	H
CF_3	O-acyl	H	S	Hypoxanthine	OH	H
CF_3	O-acyl	H	S	5-Fluorouracil	OH	H
CF_3	O-acyl	H	S	8-Fluoroguanine	OH	H
CF_3	O-acyl	H	S	5-Fluorocytosine	OH	H
CF_3	O-acyl	H	S	8-Fluoroadenine	OH	H
CF_3	O-acyl	H	S	2-Fluoroadenine	OH	H
CF_3	O-acyl	H	S	2,8-Difluoroadenine	OH	H
CF_3	O-acyl	H	S	2-Fluorohypoxanthine	OH	H
CF_3	O-acyl	H	S	8-Fluorohypoxanthine	OH	H
CF_3	O-acyl	H	S	2,8-Difluorohypoxanthine	OH	H
CF_3	O-acyl	H	S	2-Aminoadenine	OH	H
CF_3	O-acyl	H	S	2-Amino-8-fluoroadenine	OH	H
CF_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	OH	H
CF_3	O-acyl	H	S	2-Aminohypoxanthine	OH	H
CF_3	O-acyl	H	S	2-N-acetylguanine	OH	H
CF_3	O-acyl	H	S	4-N-acetylcytosine	OH	H
CF_3	O-acyl	H	S	6-N-acetyladenine	OH	H
CF_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	OH	H
CF_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	OH	H
CF_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	OH	H
CF_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	OH	H
CF_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	OH	H
CF_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CF_3	O-acyl	H	S	2-N-acetylaminoadenine	OH	H
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	OH	H
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CF_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	OH	H
CF_3	O-amino acid	F	S	Thymine	F	H
CF_3	O-amino acid	F	S	Uracil	F	H
CF_3	O-amino acid	F	S	Guanine	F	H

Gilead Exhibit 2015
PGR2023-00046 - Page 00880

R^9	R^2	R^8	X	Base	R^{10}	R^3
CF_3	O-amino acid	F	S	Cytosine	F	H
CF_3	O-amino acid	F	S	Adenine	F	H
CF_3	O-amino acid	F	S	Hypoxanthine	F	H
CF_3	O-amino acid	F	S	5-Fluorouracil	F	H
CF_3	O-amino acid	F	S	8-Fluoroguanine	F	H
CF_3	O-amino acid	F	S	5-Fluorocytosine	F	H
CF_3	O-amino acid	F	S	8-Fluoroadenine	F	H
CF_3	O-amino acid	F	S	2-Fluoroadenine	F	H
CF_3	O-amino acid	F	S	2,8-Difluoroadenine	F	H
CF_3	O-amino acid	F	S	2-Fluorohypoxanthine	F	H
CF_3	O-amino acid	F	S	8-Fluorohypoxanthine	F	H
CF_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	F	H
CF_3	O-amino acid	F	S	2-Aminoadenine	F	H
CF_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	F	H
CF_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	F	H
CF_3	O-amino acid	F	S	2-Aminohypoxanthine	F	H
CF_3	O-amino acid	F	S	2-N-acetylguanine	F	H
CF_3	O-amino acid	F	S	4-N-acetylcytosine	F	H
CF_3	O-amino acid	F	S	6-N-acetyladenine	F	H
CF_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	F	H
CF_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	F	H
CF_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	F	H
CF_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	F	H
CF_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	F	H
CF_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CF_3	O-amino acid	F	S	2-N-acetylaminoadenine	F	H
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	F	H
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	H
CF_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	F	H
CF_3	O-amino acid	F	S	Thymine	F	O-amino acid
CF_3	O-amino acid	F	S	Uracil	F	O-amino acid
CF_3	O-amino acid	F	S	Guanine	F	O-amino acid
CF_3	O-amino acid	F	S	Cytosine	F	O-amino acid
CF_3	O-amino acid	F	S	Adenine	F	O-amino acid
CF_3	O-amino acid	F	S	Hypoxanthine	F	O-amino acid
CF_3	O-amino acid	F	S	5-Fluorouracil	F	O-amino acid
CF_3	O-amino acid	F	S	8-Fluoroguanine	F	O-amino acid
CF_3	O-amino acid	F	S	5-Fluorocytosine	F	O-amino acid
CF_3	O-amino acid	F	S	8-Fluoroadenine	F	O-amino acid
CF_3	O-amino acid	F	S	2-Fluoroadenine	F	O-amino acid
CF_3	O-amino acid	F	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	O-amino acid	F	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	F	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	F	S	2-Aminoadenine	F	O-amino acid
CF_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid

Gilead Exhibit 2015
PGR2023-00046 - Page 00881

R^8	R^7	R^6	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylguanine	F	O-amino acid
CF_3	O-amino acid	F	S	4-N-acetylcytosine	F	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyladenine	F	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	O-amino acid	F	S	Thymine	F	O-acyl
CF_3	O-amino acid	F	S	Uracil	F	O-acyl
CF_3	O-amino acid	F	S	Guanine	F	O-acyl
CF_3	O-amino acid	F	S	Cytosine	F	O-acyl
CF_3	O-amino acid	F	S	Adenine	F	O-acyl
CF_3	O-amino acid	F	S	Hypoxanthine	F	O-acyl
CF_3	O-amino acid	F	S	5-Fluorouracil	F	O-acyl
CF_3	O-amino acid	F	S	8-Fluoroguanine	F	O-acyl
CF_3	O-amino acid	F	S	5-Fluorocytosine	F	O-acyl
CF_3	O-amino acid	F	S	8-Fluoroadenine	F	O-acyl
CF_3	O-amino acid	F	S	2-Fluoroadenine	F	O-acyl
CF_3	O-amino acid	F	S	2,8-Difluoroadenine	F	O-acyl
CF_3	O-amino acid	F	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	F	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	F	S	2-Aminoadenine	F	O-acyl
CF_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	F	S	2-Aminohypoxanthine	F	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylguanine	F	O-acyl
CF_3	O-amino acid	F	S	4-N-acetylcytosine	F	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyladenine	F	O-acyl
CF_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	O-amino acid	F	S	Thymine	F	OH

Gilead Exhibit 2015
PGR2023-00046 - Page 00882

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	S	Uracil	F	OH
CF_3	O-amino acid	F	S	Guanine	F	OH
CF_3	O-amino acid	F	S	Cytosine	F	OH
CF_3	O-amino acid	F	S	Adenine	F	OH
CF_3	O-amino acid	F	S	Hypoxanthine	F	OH
CF_3	O-amino acid	F	S	5-Fluorouracil	F	OH
CF_3	O-amino acid	F	S	8-Fluoroguanine	F	OH
CF_3	O-amino acid	F	S	5-Fluorocytosine	F	OH
CF_3	O-amino acid	F	S	8-Fluoroadenine	F	OH
CF_3	O-amino acid	F	S	2-Fluoroadenine	F	OH
CF_3	O-amino acid	F	S	2,8-Difluoroadenine	F	OH
CF_3	O-amino acid	F	S	2-Fluorohypoxanthine	F	OH
CF_3	O-amino acid	F	S	8-Fluorohypoxanthine	F	OH
CF_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	F	OH
CF_3	O-amino acid	F	S	2-Aminoadenine	F	OH
CF_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	F	OH
CF_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	F	OH
CF_3	O-amino acid	F	S	2-Aminohypoxanthine	F	OH
CF_3	O-amino acid	F	S	2-N-acetylguanine	F	OH
CF_3	O-amino acid	F	S	4-N-acetylcytosine	F	OH
CF_3	O-amino acid	F	S	6-N-acetyladenine	F	OH
CF_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	F	OH
CF_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	F	OH
CF_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	F	OH
CF_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	F	OH
CF_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	F	OH
CF_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CF_3	O-amino acid	F	S	2-N-acetylaminoadenine	F	OH
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	F	OH
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CF_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	F	OH
CF_3	O-amino acid	F	S	Thymine	Br	H
CF_3	O-amino acid	F	S	Uracil	Br	H
CF_3	O-amino acid	F	S	Guanine	Br	H
CF_3	O-amino acid	F	S	Cytosine	Br	H
CF_3	O-amino acid	F	S	Adenine	Br	H
CF_3	O-amino acid	F	S	Hypoxanthine	Br	H
CF_3	O-amino acid	F	S	5-Fluorouracil	Br	H
CF_3	O-amino acid	F	S	8-Fluoroguanine	Br	H
CF_3	O-amino acid	F	S	5-Fluorocytosine	Br	H
CF_3	O-amino acid	F	S	8-Fluoroadenine	Br	H
CF_3	O-amino acid	F	S	2-Fluoroadenine	Br	H
CF_3	O-amino acid	F	S	2,8-Difluoroadenine	Br	H
CF_3	O-amino acid	F	S	2-Fluorohypoxanthine	Br	H
CF_3	O-amino acid	F	S	8-Fluorohypoxanthine	Br	H
CF_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	Br	H
CF_3	O-amino acid	F	S	2-Aminoadenine	Br	H

Gilead Exhibit 2015
PGR2023-00046 - Page 00883

R^8	R^2	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	Br	H
CF_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	Br	H
CF_3	O-amino acid	F	S	2-Aminohypoxanthine	Br	H
CF_3	O-amino acid	F	S	2-N-acetylguanine	Br	H
CF_3	O-amino acid	F	S	4-N-acetylcytosine	Br	H
CF_3	O-amino acid	F	S	6-N-acetyladenine	Br	H
CF_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	Br	H
CF_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	Br	H
CF_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	Br	H
CF_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	Br	H
CF_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	Br	H
CF_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CF_3	O-amino acid	F	S	2-N-acetylaminoadenine	Br	H
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	Br	H
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CF_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	Br	H
CF_3	O-amino acid	F	S	Thymine	Br	O-amino acid
CF_3	O-amino acid	F	S	Uracil	Br	O-amino acid
CF_3	O-amino acid	F	S	Guanine	Br	O-amino acid
CF_3	O-amino acid	F	S	Cytosine	Br	O-amino acid
CF_3	O-amino acid	F	S	Adenine	Br	O-amino acid
CF_3	O-amino acid	F	S	Hypoxanthine	Br	O-amino acid
CF_3	O-amino acid	F	S	5-Fluorouracil	Br	O-amino acid
CF_3	O-amino acid	F	S	8-Fluoroguanine	Br	O-amino acid
CF_3	O-amino acid	F	S	5-Fluorocytosine	Br	O-amino acid
CF_3	O-amino acid	F	S	8-Fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	F	S	2-Fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	F	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	O-amino acid	F	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	F	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	F	S	2-Aminoadenine	Br	O-amino acid
CF_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	F	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylguanine	Br	O-amino acid
CF_3	O-amino acid	F	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyladenine	Br	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid

Gilead Exhibit 2015
PGR2023-00046 - Page 00884

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	F	S	Thymine	Br	O-acyl
CF_3	O-amino acid	F	S	Uracil	Br	O-acyl
CF_3	O-amino acid	F	S	Guanine	Br	O-acyl
CF_3	O-amino acid	F	S	Cytosine	Br	O-acyl
CF_3	O-amino acid	F	S	Adenine	Br	O-acyl
CF_3	O-amino acid	F	S	Hypoxanthine	Br	O-acyl
CF_3	O-amino acid	F	S	5-Fluorouracil	Br	O-acyl
CF_3	O-amino acid	F	S	8-Fluoroguanine	Br	O-acyl
CF_3	O-amino acid	F	S	5-Fluorocytosine	Br	O-acyl
CF_3	O-amino acid	F	S	8-Fluoroadenine	Br	O-acyl
CF_3	O-amino acid	F	S	2-Fluoroadenine	Br	O-acyl
CF_3	O-amino acid	F	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	O-amino acid	F	S	2-Fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	F	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	F	S	2-Aminoadenine	Br	O-acyl
CF_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	F	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylguanine	Br	O-acyl
CF_3	O-amino acid	F	S	4-N-acetylcytosine	Br	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyladenine	Br	O-acyl
CF_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	O-amino acid	F	S	Thymine	Br	OH
CF_3	O-amino acid	F	S	Uracil	Br	OH
CF_3	O-amino acid	F	S	Guanine	Br	OH
CF_3	O-amino acid	F	S	Cytosine	Br	OH
CF_3	O-amino acid	F	S	Adenine	Br	OH
CF_3	O-amino acid	F	S	Hypoxanthine	Br	OH
CF_3	O-amino acid	F	S	5-Fluorouracil	Br	OH
CF_3	O-amino acid	F	S	8-Fluoroguanine	Br	OH
CF_3	O-amino acid	F	S	5-Fluorocytosine	Br	OH
CF_3	O-amino acid	F	S	8-Fluoroadenine	Br	OH
CF_3	O-amino acid	F	S	2-Fluoroadenine	Br	OH
CF_3	O-amino acid	F	S	2,8-Difluoroadenine	Br	OH
CF_3	O-amino acid	F	S	2-Fluorohypoxanthine	Br	OH
CF_3	O-amino acid	F	S	8-Fluorohypoxanthine	Br	OH

Gilead Exhibit 2015
PGR2023-00046 - Page 00885

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	Br	OH
CF_3	O-amino acid	F	S	2-Aminoadenine	Br	OH
CF_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	Br	OH
CF_3	O-amino acid	F	S	2-Aminohypoxanthine	Br	OH
CF_3	O-amino acid	F	S	2-N-acetylguanine	Br	OH
CF_3	O-amino acid	F	S	4-N-acetylcytosine	Br	OH
CF_3	O-amino acid	F	S	6-N-acetyladenine	Br	OH
CF_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	Br	OH
CF_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	Br	OH
CF_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	Br	OH
CF_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	Br	OH
CF_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	Br	OH
CF_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	F	S	2-N-acetylaminoadenine	Br	OH
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CF_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	Br	OH
CF_3	O-amino acid	F	S	Thymine	Cl	H
CF_3	O-amino acid	F	S	Uracil	Cl	H
CF_3	O-amino acid	F	S	Guanine	Cl	H
CF_3	O-amino acid	F	S	Cytosine	Cl	H
CF_3	O-amino acid	F	S	Adenine	Cl	H
CF_3	O-amino acid	F	S	Hypoxanthine	Cl	H
CF_3	O-amino acid	F	S	5-Fluorouracil	Cl	H
CF_3	O-amino acid	F	S	8-Fluoroguanine	Cl	H
CF_3	O-amino acid	F	S	5-Fluorocytosine	Cl	H
CF_3	O-amino acid	F	S	8-Fluoroadenine	Cl	H
CF_3	O-amino acid	F	S	2-Fluoroadenine	Cl	H
CF_3	O-amino acid	F	S	2,8-Difluoroadenine	Cl	H
CF_3	O-amino acid	F	S	2-Fluorohypoxanthine	Cl	H
CF_3	O-amino acid	F	S	8-Fluorohypoxanthine	Cl	H
CF_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	Cl	H
CF_3	O-amino acid	F	S	2-Aminoadenine	Cl	H
CF_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	Cl	H
CF_3	O-amino acid	F	S	2-Aminohypoxanthine	Cl	H
CF_3	O-amino acid	F	S	2-N-acetylguanine	Cl	H
CF_3	O-amino acid	F	S	4-N-acetylcytosine	Cl	H
CF_3	O-amino acid	F	S	6-N-acetyladenine	Cl	H
CF_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	Cl	H
CF_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	Cl	H
CF_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	Cl	H
CF_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	H
CF_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	Cl	H
CF_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	F	S	2-N-acetylaminoadenine	Cl	H

Gilead Exhibit 2015
PGR2023-00046 - Page 00886

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CF_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	Cl	H
CF_3	O-amino acid	F	S	Thymine	Cl	O-amino acid
CF_3	O-amino acid	F	S	Uracil	Cl	O-amino acid
CF_3	O-amino acid	F	S	Guanine	Cl	O-amino acid
CF_3	O-amino acid	F	S	Cytosine	Cl	O-amino acid
CF_3	O-amino acid	F	S	Adenine	Cl	O-amino acid
CF_3	O-amino acid	F	S	Hypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	F	S	5-Fluorouracil	Cl	O-amino acid
CF_3	O-amino acid	F	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	O-amino acid	F	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	O-amino acid	F	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	F	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	F	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	F	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	F	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	F	S	2-Aminoadenine	Cl	O-amino acid
CF_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	F	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	O-amino acid	F	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	F	S	Thymine	Cl	O-acyl
CF_3	O-amino acid	F	S	Uracil	Cl	O-acyl
CF_3	O-amino acid	F	S	Guanine	Cl	O-acyl
CF_3	O-amino acid	F	S	Cytosine	Cl	O-acyl
CF_3	O-amino acid	F	S	Adenine	Cl	O-acyl
CF_3	O-amino acid	F	S	Hypoxanthine	Cl	O-acyl
CF_3	O-amino acid	F	S	5-Fluorouracil	Cl	O-acyl
CF_3	O-amino acid	F	S	8-Fluoroguanine	Cl	O-acyl
CF_3	O-amino acid	F	S	5-Fluorocytosine	Cl	O-acyl
CF_3	O-amino acid	F	S	8-Fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	F	S	2-Fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	F	S	2,8-Difluoroadenine	Cl	O-acyl

Gilead Exhibit 2015
PGR2023-00046 - Page 00887

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	F	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	F	S	2-Aminoadenine	Cl	O-acyl
CF_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	F	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylguanine	Cl	O-acyl
CF_3	O-amino acid	F	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyladenine	Cl	O-acyl
CF_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	F	S	Thymine	Cl	OH
CF_3	O-amino acid	F	S	Uracil	Cl	OH
CF_3	O-amino acid	F	S	Guanine	Cl	OH
CF_3	O-amino acid	F	S	Cytosine	Cl	OH
CF_3	O-amino acid	F	S	Adenine	Cl	OH
CF_3	O-amino acid	F	S	Hypoxanthine	Cl	OH
CF_3	O-amino acid	F	S	5-Fluorouracil	Cl	OH
CF_3	O-amino acid	F	S	8-Fluoroguanine	Cl	OH
CF_3	O-amino acid	F	S	5-Fluorocytosine	Cl	OH
CF_3	O-amino acid	F	S	8-Fluoroadenine	Cl	OH
CF_3	O-amino acid	F	S	2-Fluoroadenine	Cl	OH
CF_3	O-amino acid	F	S	2,8-Difluoroadenine	Cl	OH
CF_3	O-amino acid	F	S	2-Fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	F	S	8-Fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	Cl	OH
CF_3	O-amino acid	F	S	2-Aminoadenine	Cl	OH
CF_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	F	S	2-Aminohypoxanthine	Cl	OH
CF_3	O-amino acid	F	S	2-N-acetylguanine	Cl	OH
CF_3	O-amino acid	F	S	4-N-acetylcytosine	Cl	OH
CF_3	O-amino acid	F	S	6-N-acetyladenine	Cl	OH
CF_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	Cl	OH
CF_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	Cl	OH
CF_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	Cl	OH
CF_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CF_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	Cl	OH

Gilead Exhibit 2015
PGR2023-00046 - Page 00888

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	F	S	2-N-acetylaminoadenine	Cl	OH
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	Cl	OH
CF_3	O-amino acid	F	S	Thymine	H	H
CF_3	O-amino acid	F	S	Uracil	H	H
CF_3	O-amino acid	F	S	Guanine	H	H
CF_3	O-amino acid	F	S	Cytosine	H	H
CF_3	O-amino acid	F	S	Adenine	H	H
CF_3	O-amino acid	F	S	Hypoxanthine	H	H
CF_3	O-amino acid	F	S	5-Fluorouracil	H	H
CF_3	O-amino acid	F	S	8-Fluoroguanine	H	H
CF_3	O-amino acid	F	S	5-Fluorocytosine	H	H
CF_3	O-amino acid	F	S	8-Fluoroadenine	H	H
CF_3	O-amino acid	F	S	2-Fluoroadenine	H	H
CF_3	O-amino acid	F	S	2,8-Difluoroadenine	H	H
CF_3	O-amino acid	F	S	2-Fluorohypoxanthine	H	H
CF_3	O-amino acid	F	S	8-Fluorohypoxanthine	H	H
CF_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	H	H
CF_3	O-amino acid	F	S	2-Aminoadenine	H	H
CF_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	H	H
CF_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	H	H
CF_3	O-amino acid	F	S	2-Aminohypoxanthine	H	H
CF_3	O-amino acid	F	S	2-N-acetylguanine	H	H
CF_3	O-amino acid	F	S	4-N-acetylcytosine	H	H
CF_3	O-amino acid	F	S	6-N-acetyladenine	H	H
CF_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	H	H
CF_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	H	H
CF_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	H	H
CF_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	H	H
CF_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	H	H
CF_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CF_3	O-amino acid	F	S	2-N-acetylaminoadenine	H	H
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	H	H
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	H
CF_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	H	H
CF_3	O-amino acid	F	S	Thymine	H	O-amino acid
CF_3	O-amino acid	F	S	Uracil	H	O-amino acid
CF_3	O-amino acid	F	S	Guanine	H	O-amino acid
CF_3	O-amino acid	F	S	Cytosine	H	O-amino acid
CF_3	O-amino acid	F	S	Adenine	H	O-amino acid
CF_3	O-amino acid	F	S	Hypoxanthine	H	O-amino acid
CF_3	O-amino acid	F	S	5-Fluorouracil	H	O-amino acid
CF_3	O-amino acid	F	S	8-Fluoroguanine	H	O-amino acid
CF_3	O-amino acid	F	S	5-Fluorocytosine	H	O-amino acid
CF_3	O-amino acid	F	S	8-Fluoroadenine	H	O-amino acid

Gilead Exhibit 2015
PGR2023-00046 - Page 00889

R^5	R^7	R^8	X	Base	R^{10}	R^5
CF_3	O-amino acid	F	S	2-Fluoroadenine	H	O-amino acid
CF_3	O-amino acid	F	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	O-amino acid	F	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	F	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	F	S	2-Aminoadenine	H	O-amino acid
CF_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	F	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylguanine	H	O-amino acid
CF_3	O-amino acid	F	S	4-N-acetylcytosine	H	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyladenine	H	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	O-amino acid	F	S	Thymine	H	O-acyl
CF_3	O-amino acid	F	S	Uracil	H	O-acyl
CF_3	O-amino acid	F	S	Guanine	H	O-acyl
CF_3	O-amino acid	F	S	Cytosine	H	O-acyl
CF_3	O-amino acid	F	S	Adenine	H	O-acyl
CF_3	O-amino acid	F	S	Hypoxanthine	H	O-acyl
CF_3	O-amino acid	F	S	5-Fluorouracil	H	O-acyl
CF_3	O-amino acid	F	S	8-Fluoroguanine	H	O-acyl
CF_3	O-amino acid	F	S	5-Fluorocytosine	H	O-acyl
CF_3	O-amino acid	F	S	8-Fluoroadenine	H	O-acyl
CF_3	O-amino acid	F	S	2-Fluoroadenine	H	O-acyl
CF_3	O-amino acid	F	S	2,8-Difluoroadenine	H	O-acyl
CF_3	O-amino acid	F	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	F	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	F	S	2-Aminoadenine	H	O-acyl
CF_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	F	S	2-Aminohypoxanthine	H	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylguanine	H	O-acyl
CF_3	O-amino acid	F	S	4-N-acetylcytosine	H	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyladenine	H	O-acyl
CF_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	H	O-acyl

Gilead Exhibit 2015
PGR2023-00046 - Page 00890

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	O-amino acid	F	S	Thymine	H	OH
CF_3	O-amino acid	F	S	Uracil	H	OH
CF_3	O-amino acid	F	S	Guanine	H	OH
CF_3	O-amino acid	F	S	Cytosine	H	OH
CF_3	O-amino acid	F	S	Adenine	H	OH
CF_3	O-amino acid	F	S	Hypoxanthine	H	OH
CF_3	O-amino acid	F	S	5-Fluorouracil	H	OH
CF_3	O-amino acid	F	S	8-Fluoroguanine	H	OH
CF_3	O-amino acid	F	S	5-Fluorocytosine	H	OH
CF_3	O-amino acid	F	S	8-Fluoroadenine	H	OH
CF_3	O-amino acid	F	S	2-Fluoroadenine	H	OH
CF_3	O-amino acid	F	S	2,8-Difluoroadenine	H	OH
CF_3	O-amino acid	F	S	2-Fluorohypoxanthine	H	OH
CF_3	O-amino acid	F	S	8-Fluorohypoxanthine	H	OH
CF_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	H	OH
CF_3	O-amino acid	F	S	2-Aminoadenine	H	OH
CF_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	H	OH
CF_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	H	OH
CF_3	O-amino acid	F	S	2-Aminohypoxanthine	H	OH
CF_3	O-amino acid	F	S	2-N-acetylguanine	H	OH
CF_3	O-amino acid	F	S	4-N-acetylcytosine	H	OH
CF_3	O-amino acid	F	S	6-N-acetyladenine	H	OH
CF_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	H	OH
CF_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	H	OH
CF_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	H	OH
CF_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	H	OH
CF_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	H	OH
CF_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CF_3	O-amino acid	F	S	2-N-acetylaminoadenine	H	OH
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	H	OH
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CF_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	H	OH
CF_3	O-amino acid	F	S	Thymine	OH	H
CF_3	O-amino acid	F	S	Uracil	OH	H
CF_3	O-amino acid	F	S	Guanine	OH	H
CF_3	O-amino acid	F	S	Cytosine	OH	H
CF_3	O-amino acid	F	S	Adenine	OH	H
CF_3	O-amino acid	F	S	Hypoxanthine	OH	H
CF_3	O-amino acid	F	S	5-Fluorouracil	OH	H
CF_3	O-amino acid	F	S	8-Fluoroguanine	OH	H

Gilead Exhibit 2015
PGR2023-00046 - Page 00891

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	S	5-Fluorocytosine	OH	H
CF_3	O-amino acid	F	S	8-Fluoroadenine	OH	H
CF_3	O-amino acid	F	S	2-Fluoroadenine	OH	H
CF_3	O-amino acid	F	S	2,8-Difluoroadenine	OH	H
CF_3	O-amino acid	F	S	2-Fluorohypoxanthine	OH	H
CF_3	O-amino acid	F	S	8-Fluorohypoxanthine	OH	H
CF_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	OH	H
CF_3	O-amino acid	F	S	2-Aminoadenine	OH	H
CF_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	OH	H
CF_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	OH	H
CF_3	O-amino acid	F	S	2-Aminohypoxanthine	OH	H
CF_3	O-amino acid	F	S	2-N-acetylguanine	OH	H
CF_3	O-amino acid	F	S	4-N-acetylcytosine	OH	H
CF_3	O-amino acid	F	S	6-N-acetyladenine	OH	H
CF_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	OH	H
CF_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	OH	H
CF_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	OH	H
CF_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	OH	H
CF_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	OH	H
CF_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CF_3	O-amino acid	F	S	2-N-acetylaminoadenine	OH	H
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	OH	H
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CF_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	OH	H
CF_3	O-amino acid	Br	S	Thymine	F	H
CF_3	O-amino acid	Br	S	Uracil	F	H
CF_3	O-amino acid	Br	S	Guanine	F	H
CF_3	O-amino acid	Br	S	Cytosine	F	H
CF_3	O-amino acid	Br	S	Adenine	F	H
CF_3	O-amino acid	Br	S	Hypoxanthine	F	H
CF_3	O-amino acid	Br	S	5-Fluorouracil	F	H
CF_3	O-amino acid	Br	S	8-Fluoroguanine	F	H
CF_3	O-amino acid	Br	S	5-Fluorocytosine	F	H
CF_3	O-amino acid	Br	S	8-Fluoroadenine	F	H
CF_3	O-amino acid	Br	S	2-Fluoroadenine	F	H
CF_3	O-amino acid	Br	S	2,8-Difluoroadenine	F	H
CF_3	O-amino acid	Br	S	2-Fluorohypoxanthine	F	H
CF_3	O-amino acid	Br	S	8-Fluorohypoxanthine	F	H
CF_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	F	H
CF_3	O-amino acid	Br	S	2-Aminoadenine	F	H
CF_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	F	H
CF_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	F	H
CF_3	O-amino acid	Br	S	2-Aminohypoxanthine	F	H
CF_3	O-amino acid	Br	S	2-N-acetylguanine	F	H
CF_3	O-amino acid	Br	S	4-N-acetylcytosine	F	H
CF_3	O-amino acid	Br	S	6-N-acetyladenine	F	H
CF_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	F	H

Gilead Exhibit 2015
PGR2023-00046 - Page 00892

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	F	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	F	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	F	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	F	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CF_3	O-amino acid	Br	S	2-N-acetylaminoadenine	F	H
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	F	H
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	H
CF_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	F	H
CF_3	O-amino acid	Br	S	Thymine	F	O-amino acid
CF_3	O-amino acid	Br	S	Uracil	F	O-amino acid
CF_3	O-amino acid	Br	S	Guanine	F	O-amino acid
CF_3	O-amino acid	Br	S	Cytosine	F	O-amino acid
CF_3	O-amino acid	Br	S	Adenine	F	O-amino acid
CF_3	O-amino acid	Br	S	Hypoxanthine	F	O-amino acid
CF_3	O-amino acid	Br	S	5-Fluorouracil	F	O-amino acid
CF_3	O-amino acid	Br	S	8-Fluoroguanine	F	O-amino acid
CF_3	O-amino acid	Br	S	5-Fluorocytosine	F	O-amino acid
CF_3	O-amino acid	Br	S	8-Fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Br	S	2-Fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Br	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	O-amino acid	Br	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Br	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Br	S	2-Aminoadenine	F	O-amino acid
CF_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Br	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylguanine	F	O-amino acid
CF_3	O-amino acid	Br	S	4-N-acetylcytosine	F	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyladenine	F	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Br	S	Thymine	F	O-acyl
CF_3	O-amino acid	Br	S	Uracil	F	O-acyl
CF_3	O-amino acid	Br	S	Guanine	F	O-acyl
CF_3	O-amino acid	Br	S	Cytosine	F	O-acyl
CF_3	O-amino acid	Br	S	Adenine	F	O-acyl
CF_3	O-amino acid	Br	S	Hypoxanthine	F	O-acyl

Gilead Exhibit 2015
PGR2023-00046 - Page 00893

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	S	5-Fluorouracil	F	O-acyl
CF_3	O-amino acid	Br	S	8-Fluoroguanine	F	O-acyl
CF_3	O-amino acid	Br	S	5-Fluorocytosine	F	O-acyl
CF_3	O-amino acid	Br	S	8-Fluoroadenine	F	O-acyl
CF_3	O-amino acid	Br	S	2-Fluoroadenine	F	O-acyl
CF_3	O-amino acid	Br	S	2,8-Difluoroadenine	F	O-acyl
CF_3	O-amino acid	Br	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	Br	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	Br	S	2-Aminoadenine	F	O-acyl
CF_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	Br	S	2-Aminohypoxanthine	F	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylguanine	F	O-acyl
CF_3	O-amino acid	Br	S	4-N-acetylcytosine	F	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyladenine	F	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	O-amino acid	Br	S	Thymine	F	OH
CF_3	O-amino acid	Br	S	Uracil	F	OH
CF_3	O-amino acid	Br	S	Guanine	F	OH
CF_3	O-amino acid	Br	S	Cytosine	F	OH
CF_3	O-amino acid	Br	S	Adenine	F	OH
CF_3	O-amino acid	Br	S	Hypoxanthine	F	OH
CF_3	O-amino acid	Br	S	5-Fluorouracil	F	OH
CF_3	O-amino acid	Br	S	8-Fluoroguanine	F	OH
CF_3	O-amino acid	Br	S	5-Fluorocytosine	F	OH
CF_3	O-amino acid	Br	S	8-Fluoroadenine	F	OH
CF_3	O-amino acid	Br	S	2-Fluoroadenine	F	OH
CF_3	O-amino acid	Br	S	2,8-Difluoroadenine	F	OH
CF_3	O-amino acid	Br	S	2-Fluorohypoxanthine	F	OH
CF_3	O-amino acid	Br	S	8-Fluorohypoxanthine	F	OH
CF_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	F	OH
CF_3	O-amino acid	Br	S	2-Aminoadenine	F	OH
CF_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	F	OH
CF_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	F	OH
CF_3	O-amino acid	Br	S	2-Aminohypoxanthine	F	OH
CF_3	O-amino acid	Br	S	2-N-acetylguanine	F	OH
CF_3	O-amino acid	Br	S	4-N-acetylcytosine	F	OH

Gilead Exhibit 2015
PGR2023-00046 - Page 00894

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	S	6-N-acetyladenine	F	OH
CF_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	F	OH
CF_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	F	OH
CF_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	F	OH
CF_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	F	OH
CF_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	F	OH
CF_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CF_3	O-amino acid	Br	S	2-N-acetylaminoadenine	F	OH
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	F	OH
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CF_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	F	OH
CF_3	O-amino acid	Br	S	Thymine	Br	H
CF_3	O-amino acid	Br	S	Uracil	Br	H
CF_3	O-amino acid	Br	S	Guanine	Br	H
CF_3	O-amino acid	Br	S	Cytosine	Br	H
CF_3	O-amino acid	Br	S	Adenine	Br	H
CF_3	O-amino acid	Br	S	Hypoxanthine	Br	H
CF_3	O-amino acid	Br	S	5-Fluorouracil	Br	H
CF_3	O-amino acid	Br	S	8-Fluoroguanine	Br	H
CF_3	O-amino acid	Br	S	5-Fluorocytosine	Br	H
CF_3	O-amino acid	Br	S	8-Fluoroadenine	Br	H
CF_3	O-amino acid	Br	S	2-Fluoroadenine	Br	H
CF_3	O-amino acid	Br	S	2,8-Difluoroadenine	Br	H
CF_3	O-amino acid	Br	S	2-Fluorohypoxanthine	Br	H
CF_3	O-amino acid	Br	S	8-Fluorohypoxanthine	Br	H
CF_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	Br	H
CF_3	O-amino acid	Br	S	2-Aminoadenine	Br	H
CF_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	Br	H
CF_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	Br	H
CF_3	O-amino acid	Br	S	2-Aminohypoxanthine	Br	H
CF_3	O-amino acid	Br	S	2-N-acetylguanine	Br	H
CF_3	O-amino acid	Br	S	4-N-acetylcytosine	Br	H
CF_3	O-amino acid	Br	S	6-N-acetyladenine	Br	H
CF_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	Br	H
CF_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	Br	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	Br	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	Br	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CF_3	O-amino acid	Br	S	2-N-acetylaminoadenine	Br	H
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	Br	H
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CF_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	Br	H
CF_3	O-amino acid	Br	S	Thymine	Br	O-amino acid
CF_3	O-amino acid	Br	S	Uracil	Br	O-amino acid
CF_3	O-amino acid	Br	S	Guanine	Br	O-amino acid
CF_3	O-amino acid	Br	S	Cytosine	Br	O-amino acid

Gilead Exhibit 2015
PGR2023-00046 - Page 00895

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	S	Adenine	Br	O-amino acid
CF_3	O-amino acid	Br	S	Hypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Br	S	5-Fluorouracil	Br	O-amino acid
CF_3	O-amino acid	Br	S	8-Fluoroguanine	Br	O-amino acid
CF_3	O-amino acid	Br	S	5-Fluorocytosine	Br	O-amino acid
CF_3	O-amino acid	Br	S	8-Fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Br	S	2-Fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Br	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Br	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Br	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Br	S	2-Aminoadenine	Br	O-amino acid
CF_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Br	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylguanine	Br	O-amino acid
CF_3	O-amino acid	Br	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyladenine	Br	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Br	S	Thymine	Br	O-acyl
CF_3	O-amino acid	Br	S	Uracil	Br	O-acyl
CF_3	O-amino acid	Br	S	Guanine	Br	O-acyl
CF_3	O-amino acid	Br	S	Cytosine	Br	O-acyl
CF_3	O-amino acid	Br	S	Adenine	Br	O-acyl
CF_3	O-amino acid	Br	S	Hypoxanthine	Br	O-acyl
CF_3	O-amino acid	Br	S	5-Fluorouracil	Br	O-acyl
CF_3	O-amino acid	Br	S	8-Fluoroguanine	Br	O-acyl
CF_3	O-amino acid	Br	S	5-Fluorocytosine	Br	O-acyl
CF_3	O-amino acid	Br	S	8-Fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Br	S	2-Fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Br	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	O-amino acid	Br	S	2-Fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Br	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Br	S	2-Aminoadenine	Br	O-acyl
CF_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Br	S	2-Aminohypoxanthine	Br	O-acyl

Gilead Exhibit 2015
PGR2023-00046 - Page 00896

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	S	2-N-acetylguanine	Br	O-acyl
CF_3	O-amino acid	Br	S	4-N-acetylcytosine	Br	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyladenine	Br	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Br	S	Thymine	Br	OH
CF_3	O-amino acid	Br	S	Uracil	Br	OH
CF_3	O-amino acid	Br	S	Guanine	Br	OH
CF_3	O-amino acid	Br	S	Cytosine	Br	OH
CF_3	O-amino acid	Br	S	Adenine	Br	OH
CF_3	O-amino acid	Br	S	Hypoxanthine	Br	OH
CF_3	O-amino acid	Br	S	5-Fluorouracil	Br	OH
CF_3	O-amino acid	Br	S	8-Fluoroguanine	Br	OH
CF_3	O-amino acid	Br	S	5-Fluorocytosine	Br	OH
CF_3	O-amino acid	Br	S	8-Fluoroadenine	Br	OH
CF_3	O-amino acid	Br	S	2-Fluoroadenine	Br	OH
CF_3	O-amino acid	Br	S	2,8-Difluoroadenine	Br	OH
CF_3	O-amino acid	Br	S	2-Fluorohypoxanthine	Br	OH
CF_3	O-amino acid	Br	S	8-Fluorohypoxanthine	Br	OH
CF_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	Br	OH
CF_3	O-amino acid	Br	S	2-Aminoadenine	Br	OH
CF_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	Br	OH
CF_3	O-amino acid	Br	S	2-Aminohypoxanthine	Br	OH
CF_3	O-amino acid	Br	S	2-N-acetylguanine	Br	OH
CF_3	O-amino acid	Br	S	4-N-acetylcytosine	Br	OH
CF_3	O-amino acid	Br	S	6-N-acetyladenine	Br	OH
CF_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	Br	OH
CF_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	Br	OH
CF_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	Br	OH
CF_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	OH
CF_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	Br	OH
CF_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	Br	S	2-N-acetylaminoadenine	Br	OH
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CF_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	Br	OH
CF_3	O-amino acid	Br	S	Thymine	Cl	H
CF_3	O-amino acid	Br	S	Uracil	Cl	H

Gilead Exhibit 2015
PGR2023-00046 - Page 00897

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	S	Guanine	Cl	H
CF_3	O-amino acid	Br	S	Cytosine	Cl	H
CF_3	O-amino acid	Br	S	Adenine	Cl	H
CF_3	O-amino acid	Br	S	Hypoxanthine	Cl	H
CF_3	O-amino acid	Br	S	5-Fluorouracil	Cl	H
CF_3	O-amino acid	Br	S	8-Fluoroguanine	Cl	H
CF_3	O-amino acid	Br	S	5-Fluorocytosine	Cl	H
CF_3	O-amino acid	Br	S	8-Fluoroadenine	Cl	H
CF_3	O-amino acid	Br	S	2-Fluoroadenine	Cl	H
CF_3	O-amino acid	Br	S	2,8-Difluoroadenine	Cl	H
CF_3	O-amino acid	Br	S	2-Fluorohypoxanthine	Cl	H
CF_3	O-amino acid	Br	S	8-Fluorohypoxanthine	Cl	H
CF_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	Cl	H
CF_3	O-amino acid	Br	S	2-Aminoadenine	Cl	H
CF_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	Cl	H
CF_3	O-amino acid	Br	S	2-Aminohypoxanthine	Cl	H
CF_3	O-amino acid	Br	S	2-N-acetylguanine	Cl	H
CF_3	O-amino acid	Br	S	4-N-acetylcytosine	Cl	H
CF_3	O-amino acid	Br	S	6-N-acetyladenine	Cl	H
CF_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	Cl	H
CF_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	Cl	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	Cl	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	Cl	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	Br	S	2-N-acetylaminoadenine	Cl	H
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CF_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	Cl	H
CF_3	O-amino acid	Br	S	Thymine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	Uracil	Cl	O-amino acid
CF_3	O-amino acid	Br	S	Guanine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	Cytosine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	Adenine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	Hypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	5-Fluorouracil	Cl	O-amino acid
CF_3	O-amino acid	Br	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	2-Aminoadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	Cl	O-amino acid

Gilead Exhibit 2015
PGR2023-00046 - Page 00898

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	Thymine	Cl	O-acyl
CF_3	O-amino acid	Br	S	Uracil	Cl	O-acyl
CF_3	O-amino acid	Br	S	Guanine	Cl	O-acyl
CF_3	O-amino acid	Br	S	Cytosine	Cl	O-acyl
CF_3	O-amino acid	Br	S	Adenine	Cl	O-acyl
CF_3	O-amino acid	Br	S	Hypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Br	S	5-Fluorouracil	Cl	O-acyl
CF_3	O-amino acid	Br	S	8-Fluoroguanine	Cl	O-acyl
CF_3	O-amino acid	Br	S	5-Fluorocytosine	Cl	O-acyl
CF_3	O-amino acid	Br	S	8-Fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Br	S	2-Fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Br	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Br	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Br	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Br	S	2-Aminoadenine	Cl	O-acyl
CF_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Br	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylguanine	Cl	O-acyl
CF_3	O-amino acid	Br	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyladenine	Cl	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	Cl	O-acyl

Gilead Exhibit 2015
PGR2023-00046 - Page 00899

R^6	R^7	R^9	X	Base	R^{10}	R^8
CF_3	O-amino acid	Br	S	Thymine	Cl	OH
CF_3	O-amino acid	Br	S	Uracil	Cl	OH
CF_3	O-amino acid	Br	S	Guanine	Cl	OH
CF_3	O-amino acid	Br	S	Cytosine	Cl	OH
CF_3	O-amino acid	Br	S	Adenine	Cl	OH
CF_3	O-amino acid	Br	S	Hypoxanthine	Cl	OH
CF_3	O-amino acid	Br	S	5-Fluorouracil	Cl	OH
CF_3	O-amino acid	Br	S	8-Fluoroguanine	Cl	OH
CF_3	O-amino acid	Br	S	5-Fluorocytosine	Cl	OH
CF_3	O-amino acid	Br	S	8-Fluoroadenine	Cl	OH
CF_3	O-amino acid	Br	S	2-Fluoroadenine	Cl	OH
CF_3	O-amino acid	Br	S	2,8-Difluoroadenine	Cl	OH
CF_3	O-amino acid	Br	S	2-Fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	Br	S	8-Fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	Cl	OH
CF_3	O-amino acid	Br	S	2-Aminoadenine	Cl	OH
CF_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	Br	S	2-Aminohypoxanthine	Cl	OH
CF_3	O-amino acid	Br	S	2-N-acetylguanine	Cl	OH
CF_3	O-amino acid	Br	S	4-N-acetylcytosine	Cl	OH
CF_3	O-amino acid	Br	S	6-N-acetyladenine	Cl	OH
CF_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	Cl	OH
CF_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	Cl	OH
CF_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	Cl	OH
CF_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CF_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	Cl	OH
CF_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	Br	S	2-N-acetylaminoadenine	Cl	OH
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	Cl	OH
CF_3	O-amino acid	Br	S	Thymine	H	H
CF_3	O-amino acid	Br	S	Uracil	H	H
CF_3	O-amino acid	Br	S	Guanine	H	H
CF_3	O-amino acid	Br	S	Cytosine	H	H
CF_3	O-amino acid	Br	S	Adenine	H	H
CF_3	O-amino acid	Br	S	Hypoxanthine	H	H
CF_3	O-amino acid	Br	S	5-Fluorouracil	H	H
CF_3	O-amino acid	Br	S	8-Fluoroguanine	H	H
CF_3	O-amino acid	Br	S	5-Fluorocytosine	H	H
CF_3	O-amino acid	Br	S	8-Fluoroadenine	H	H
CF_3	O-amino acid	Br	S	2-Fluoroadenine	H	H
CF_3	O-amino acid	Br	S	2,8-Difluoroadenine	H	H
CF_3	O-amino acid	Br	S	2-Fluorohypoxanthine	H	H
CF_3	O-amino acid	Br	S	8-Fluorohypoxanthine	H	H
CF_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	H	H

Gilead Exhibit 2015
PGR2023-00046 - Page 00900

R^8	R^7	R^9	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	S	2-Aminoadenine	H	H
CF_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	H	H
CF_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	H	H
CF_3	O-amino acid	Br	S	2-Aminohypoxanthine	H	H
CF_3	O-amino acid	Br	S	2-N-acetylguanine	H	H
CF_3	O-amino acid	Br	S	4-N-acetylcytosine	H	H
CF_3	O-amino acid	Br	S	6-N-acetyladenine	H	H
CF_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	H	H
CF_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	H	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	H	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	H	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	H	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CF_3	O-amino acid	Br	S	2-N-acetylaminoadenine	H	H
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	H	H
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	H
CF_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	H	H
CF_3	O-amino acid	Br	S	Thymine	H	O-amino acid
CF_3	O-amino acid	Br	S	Uracil	H	O-amino acid
CF_3	O-amino acid	Br	S	Guanine	H	O-amino acid
CF_3	O-amino acid	Br	S	Cytosine	H	O-amino acid
CF_3	O-amino acid	Br	S	Adenine	H	O-amino acid
CF_3	O-amino acid	Br	S	Hypoxanthine	H	O-amino acid
CF_3	O-amino acid	Br	S	5-Fluorouracil	H	O-amino acid
CF_3	O-amino acid	Br	S	8-Fluoroguanine	H	O-amino acid
CF_3	O-amino acid	Br	S	5-Fluorocytosine	H	O-amino acid
CF_3	O-amino acid	Br	S	8-Fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Br	S	2-Fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Br	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	O-amino acid	Br	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Br	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Br	S	2-Aminoadenine	H	O-amino acid
CF_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Br	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylguanine	H	O-amino acid
CF_3	O-amino acid	Br	S	4-N-acetylcytosine	H	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyladenine	H	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid

Gilead Exhibit 2015
PGR2023-00046 - Page 00901

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Br	S	Thymine	H	O-acyl
CF_3	O-amino acid	Br	S	Uracil	H	O-acyl
CF_3	O-amino acid	Br	S	Guanine	H	O-acyl
CF_3	O-amino acid	Br	S	Cytosine	H	O-acyl
CF_3	O-amino acid	Br	S	Adenine	H	O-acyl
CF_3	O-amino acid	Br	S	Hypoxanthine	H	O-acyl
CF_3	O-amino acid	Br	S	5-Fluorouracil	H	O-acyl
CF_3	O-amino acid	Br	S	8-Fluoroguanine	H	O-acyl
CF_3	O-amino acid	Br	S	5-Fluorocytosine	H	O-acyl
CF_3	O-amino acid	Br	S	8-Fluoroadenine	H	O-acyl
CF_3	O-amino acid	Br	S	2-Fluoroadenine	H	O-acyl
CF_3	O-amino acid	Br	S	2,8-Difluoroadenine	H	O-acyl
CF_3	O-amino acid	Br	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	Br	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	Br	S	2-Aminoadenine	H	O-acyl
CF_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	Br	S	2-Aminohypoxanthine	H	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylguanine	H	O-acyl
CF_3	O-amino acid	Br	S	4-N-acetylcytosine	H	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyladenine	H	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	O-amino acid	Br	S	Thymine	H	OH
CF_3	O-amino acid	Br	S	Uracil	H	OH
CF_3	O-amino acid	Br	S	Guanine	H	OH
CF_3	O-amino acid	Br	S	Cytosine	H	OH
CF_3	O-amino acid	Br	S	Adenine	H	OH
CF_3	O-amino acid	Br	S	Hypoxanthine	H	OH
CF_3	O-amino acid	Br	S	5-Fluorouracil	H	OH
CF_3	O-amino acid	Br	S	8-Fluoroguanine	H	OH
CF_3	O-amino acid	Br	S	5-Fluorocytosine	H	OH
CF_3	O-amino acid	Br	S	8-Fluoroadenine	H	OH
CF_3	O-amino acid	Br	S	2-Fluoroadenine	H	OH
CF_3	O-amino acid	Br	S	2,8-Difluoroadenine	H	OH
CF_3	O-amino acid	Br	S	2-Fluorohypoxanthine	H	OH

Gilead Exhibit 2015
PGR2023-00046 - Page 00902

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	S	8-Fluorohypoxanthine	H	OH
CF_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	H	OH
CF_3	O-amino acid	Br	S	2-Aminoadenine	H	OH
CF_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	H	OH
CF_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	H	OH
CF_3	O-amino acid	Br	S	2-Aminohypoxanthine	H	OH
CF_3	O-amino acid	Br	S	2-N-acetylguanine	H	OH
CF_3	O-amino acid	Br	S	4-N-acetylcytosine	H	OH
CF_3	O-amino acid	Br	S	6-N-acetyladenine	H	OH
CF_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	H	OH
CF_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	H	OH
CF_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	H	OH
CF_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	H	OH
CF_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	H	OH
CF_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CF_3	O-amino acid	Br	S	2-N-acetylaminoadenine	H	OH
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	H	OH
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CF_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	H	OH
CF_3	O-amino acid	Br	S	Thymine	OH	H
CF_3	O-amino acid	Br	S	Uracil	OH	H
CF_3	O-amino acid	Br	S	Guanine	OH	H
CF_3	O-amino acid	Br	S	Cytosine	OH	H
CF_3	O-amino acid	Br	S	Adenine	OH	H
CF_3	O-amino acid	Br	S	Hypoxanthine	OH	H
CF_3	O-amino acid	Br	S	5-Fluorouracil	OH	H
CF_3	O-amino acid	Br	S	8-Fluoroguanine	OH	H
CF_3	O-amino acid	Br	S	5-Fluorocytosine	OH	H
CF_3	O-amino acid	Br	S	8-Fluoroadenine	OH	H
CF_3	O-amino acid	Br	S	2-Fluoroadenine	OH	H
CF_3	O-amino acid	Br	S	2,8-Difluoroadenine	OH	H
CF_3	O-amino acid	Br	S	2-Fluorohypoxanthine	OH	H
CF_3	O-amino acid	Br	S	8-Fluorohypoxanthine	OH	H
CF_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	OH	H
CF_3	O-amino acid	Br	S	2-Aminoadenine	OH	H
CF_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	OH	H
CF_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	OH	H
CF_3	O-amino acid	Br	S	2-Aminohypoxanthine	OH	H
CF_3	O-amino acid	Br	S	2-N-acetylguanine	OH	H
CF_3	O-amino acid	Br	S	4-N-acetylcytosine	OH	H
CF_3	O-amino acid	Br	S	6-N-acetyladenine	OH	H
CF_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	OH	H
CF_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	OH	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	OH	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	OH	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	OH	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	H

Gilead Exhibit 2015
PGR2023-00046 - Page 00903

R^6	R^2	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	S	2-N-acetylaminoadenine	OH	H
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	OH	H
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CF_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	OH	H
CF_3	O-amino acid	Cl	S	Thymine	F	H
CF_3	O-amino acid	Cl	S	Uracil	F	H
CF_3	O-amino acid	Cl	S	Guanine	F	H
CF_3	O-amino acid	Cl	S	Cytosine	F	H
CF_3	O-amino acid	Cl	S	Adenine	F	H
CF_3	O-amino acid	Cl	S	Hypoxanthine	F	H
CF_3	O-amino acid	Cl	S	5-Fluorouracil	F	H
CF_3	O-amino acid	Cl	S	8-Fluoroguanine	F	H
CF_3	O-amino acid	Cl	S	5-Fluorocytosine	F	H
CF_3	O-amino acid	Cl	S	8-Fluoroadenine	F	H
CF_3	O-amino acid	Cl	S	2-Fluoroadenine	F	H
CF_3	O-amino acid	Cl	S	2,8-Difluoroadenine	F	H
CF_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	F	H
CF_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	F	H
CF_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	F	H
CF_3	O-amino acid	Cl	S	2-Aminoadenine	F	H
CF_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	F	H
CF_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	F	H
CF_3	O-amino acid	Cl	S	2-Aminohypoxanthine	F	H
CF_3	O-amino acid	Cl	S	2-N-acetylguanine	F	H
CF_3	O-amino acid	Cl	S	4-N-acetylcytosine	F	H
CF_3	O-amino acid	Cl	S	6-N-acetyladenine	F	H
CF_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	F	H
CF_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	F	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	F	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	F	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CF_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	F	H
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	F	H
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	H
CF_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	F	H
CF_3	O-amino acid	Cl	S	Thymine	F	O-amino acid
CF_3	O-amino acid	Cl	S	Uracil	F	O-amino acid
CF_3	O-amino acid	Cl	S	Guanine	F	O-amino acid
CF_3	O-amino acid	Cl	S	Cytosine	F	O-amino acid
CF_3	O-amino acid	Cl	S	Adenine	F	O-amino acid
CF_3	O-amino acid	Cl	S	Hypoxanthine	F	O-amino acid
CF_3	O-amino acid	Cl	S	5-Fluorouracil	F	O-amino acid
CF_3	O-amino acid	Cl	S	8-Fluoroguanine	F	O-amino acid
CF_3	O-amino acid	Cl	S	5-Fluorocytosine	F	O-amino acid
CF_3	O-amino acid	Cl	S	8-Fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Cl	S	2-Fluoroadenine	F	O-amino acid

Gilead Exhibit 2015
PGR2023-00046 - Page 00904

R^6	R^2	R^9	X	Base	R^{10}	R^5
CF_3	O-amino acid	Cl	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Cl	S	2-Aminoadenine	F	O-amino acid
CF_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Cl	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylguanine	F	O-amino acid
CF_3	O-amino acid	Cl	S	4-N-acetylcytosine	F	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyladenine	F	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Cl	S	Thymine	F	O-acyl
CF_3	O-amino acid	Cl	S	Uracil	F	O-acyl
CF_3	O-amino acid	Cl	S	Guanine	F	O-acyl
CF_3	O-amino acid	Cl	S	Cytosine	F	O-acyl
CF_3	O-amino acid	Cl	S	Adenine	F	O-acyl
CF_3	O-amino acid	Cl	S	Hypoxanthine	F	O-acyl
CF_3	O-amino acid	Cl	S	5-Fluorouracil	F	O-acyl
CF_3	O-amino acid	Cl	S	8-Fluoroguanine	F	O-acyl
CF_3	O-amino acid	Cl	S	5-Fluorocytosine	F	O-acyl
CF_3	O-amino acid	Cl	S	8-Fluoroadenine	F	O-acyl
CF_3	O-amino acid	Cl	S	2-Fluoroadenine	F	O-acyl
CF_3	O-amino acid	Cl	S	2,8-Difluoroadenine	F	O-acyl
CF_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	Cl	S	2-Aminoadenine	F	O-acyl
CF_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	Cl	S	2-Aminohypoxanthine	F	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylguanine	F	O-acyl
CF_3	O-amino acid	Cl	S	4-N-acetylcytosine	F	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyladenine	F	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl

Gilead Exhibit 2015
PGR2023-00046 - Page 00905

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	O-amino acid	Cl	S	Thymine	F	OH
CF_3	O-amino acid	Cl	S	Uracil	F	OH
CF_3	O-amino acid	Cl	S	Guanine	F	OH
CF_3	O-amino acid	Cl	S	Cytosine	F	OH
CF_3	O-amino acid	Cl	S	Adenine	F	OH
CF_3	O-amino acid	Cl	S	Hypoxanthine	F	OH
CF_3	O-amino acid	Cl	S	5-Fluorouracil	F	OH
CF_3	O-amino acid	Cl	S	8-Fluoroguanine	F	OH
CF_3	O-amino acid	Cl	S	5-Fluorocytosine	F	OH
CF_3	O-amino acid	Cl	S	8-Fluoroadenine	F	OH
CF_3	O-amino acid	Cl	S	2-Fluoroadenine	F	OH
CF_3	O-amino acid	Cl	S	2,8-Difluoroadenine	F	OH
CF_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	F	OH
CF_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	F	OH
CF_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	F	OH
CF_3	O-amino acid	Cl	S	2-Aminoadenine	F	OH
CF_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	F	OH
CF_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	F	OH
CF_3	O-amino acid	Cl	S	2-Aminohypoxanthine	F	OH
CF_3	O-amino acid	Cl	S	2-N-acetylguanine	F	OH
CF_3	O-amino acid	Cl	S	4-N-acetylcytosine	F	OH
CF_3	O-amino acid	Cl	S	6-N-acetyladenine	F	OH
CF_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	F	OH
CF_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	F	OH
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	F	OH
CF_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	OH
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	F	OH
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CF_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	F	OH
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	F	OH
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CF_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	F	OH
CF_3	O-amino acid	Cl	S	Thymine	Br	H
CF_3	O-amino acid	Cl	S	Uracil	Br	H
CF_3	O-amino acid	Cl	S	Guanine	Br	H
CF_3	O-amino acid	Cl	S	Cytosine	Br	H
CF_3	O-amino acid	Cl	S	Adenine	Br	H
CF_3	O-amino acid	Cl	S	Hypoxanthine	Br	H
CF_3	O-amino acid	Cl	S	5-Fluorouracil	Br	H
CF_3	O-amino acid	Cl	S	8-Fluoroguanine	Br	H
CF_3	O-amino acid	Cl	S	5-Fluorocytosine	Br	H

Gilead Exhibit 2015
PGR2023-00046 - Page 00906

R^6	R^7	R^9	X	Base	R^{10}	R^5
CF_3	O-amino acid	Cl	S	8-Fluoroadenine	Br	H
CF_3	O-amino acid	Cl	S	2-Fluoroadenine	Br	H
CF_3	O-amino acid	Cl	S	2,8-Difluoroadenine	Br	H
CF_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	Br	H
CF_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	Br	H
CF_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	Br	H
CF_3	O-amino acid	Cl	S	2-Aminoadenine	Br	H
CF_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	Br	H
CF_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	Br	H
CF_3	O-amino acid	Cl	S	2-Aminohypoxanthine	Br	H
CF_3	O-amino acid	Cl	S	2-N-acetylguanine	Br	H
CF_3	O-amino acid	Cl	S	4-N-acetylcytosine	Br	H
CF_3	O-amino acid	Cl	S	6-N-acetyladenine	Br	H
CF_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	Br	H
CF_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	Br	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	Br	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	Br	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CF_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	Br	H
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	H
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CF_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	Br	H
CF_3	O-amino acid	Cl	S	Thymine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	Uracil	Br	O-amino acid
CF_3	O-amino acid	Cl	S	Guanine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	Cytosine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	Adenine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	Hypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	5-Fluorouracil	Br	O-amino acid
CF_3	O-amino acid	Cl	S	8-Fluoroguanine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	5-Fluorocytosine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	8-Fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	2-Fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	2-Aminoadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylguanine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyladenine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid

Gilead Exhibit 2015
PGR2023-00046 - Page 00907

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	Thymine	Br	O-acyl
CF_3	O-amino acid	Cl	S	Uracil	Br	O-acyl
CF_3	O-amino acid	Cl	S	Guanine	Br	O-acyl
CF_3	O-amino acid	Cl	S	Cytosine	Br	O-acyl
CF_3	O-amino acid	Cl	S	Adenine	Br	O-acyl
CF_3	O-amino acid	Cl	S	Hypoxanthine	Br	O-acyl
CF_3	O-amino acid	Cl	S	5-Fluorouracil	Br	O-acyl
CF_3	O-amino acid	Cl	S	8-Fluoroguanine	Br	O-acyl
CF_3	O-amino acid	Cl	S	5-Fluorocytosine	Br	O-acyl
CF_3	O-amino acid	Cl	S	8-Fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Cl	S	2-Fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Cl	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Cl	S	2-Aminoadenine	Br	O-acyl
CF_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Cl	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylguanine	Br	O-acyl
CF_3	O-amino acid	Cl	S	4-N-acetylcytosine	Br	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyladenine	Br	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylammo-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Cl	S	Thymine	Br	OH
CF_3	O-amino acid	Cl	S	Uracil	Br	OH
CF_3	O-amino acid	Cl	S	Guanine	Br	OH
CF_3	O-amino acid	Cl	S	Cytosine	Br	OH
CF_3	O-amino acid	Cl	S	Adenine	Br	OH
CF_3	O-amino acid	Cl	S	Hypoxanthine	Br	OH
CF_3	O-amino acid	Cl	S	5-Fluorouracil	Br	OH

Gilead Exhibit 2015
PGR2023-00046 - Page 00908

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	S	8-Fluoroguanine	Br	OH
CF_3	O-amino acid	Cl	S	5-Fluorocytosine	Br	OH
CF_3	O-amino acid	Cl	S	8-Fluoroadenine	Br	OH
CF_3	O-amino acid	Cl	S	2-Fluoroadenine	Br	OH
CF_3	O-amino acid	Cl	S	2,8-Difluoroadenine	Br	OH
CF_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	Br	OH
CF_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	Br	OH
CF_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	Br	OH
CF_3	O-amino acid	Cl	S	2-Aminoadenine	Br	OH
CF_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	Br	OH
CF_3	O-amino acid	Cl	S	2-Aminohypoxanthine	Br	OH
CF_3	O-amino acid	Cl	S	2-N-acetylguanine	Br	OH
CF_3	O-amino acid	Cl	S	4-N-acetylcytosine	Br	OH
CF_3	O-amino acid	Cl	S	6-N-acetyladenine	Br	OH
CF_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	Br	OH
CF_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	Br	OH
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	Br	OH
CF_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	OH
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	Br	OH
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	Br	OH
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CF_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	Br	OH
CF_3	O-amino acid	Cl	S	Thymine	Cl	H
CF_3	O-amino acid	Cl	S	Uracil	Cl	H
CF_3	O-amino acid	Cl	S	Guanine	Cl	H
CF_3	O-amino acid	Cl	S	Cytosine	Cl	H
CF_3	O-amino acid	Cl	S	Adenine	Cl	H
CF_3	O-amino acid	Cl	S	Hypoxanthine	Cl	H
CF_3	O-amino acid	Cl	S	5-Fluorouracil	Cl	H
CF_3	O-amino acid	Cl	S	8-Fluoroguanine	Cl	H
CF_3	O-amino acid	Cl	S	5-Fluorocytosine	Cl	H
CF_3	O-amino acid	Cl	S	8-Fluoroadenine	Cl	H
CF_3	O-amino acid	Cl	S	2-Fluoroadenine	Cl	H
CF_3	O-amino acid	Cl	S	2,8-Difluoroadenine	Cl	H
CF_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	Cl	H
CF_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	Cl	H
CF_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	Cl	H
CF_3	O-amino acid	Cl	S	2-Aminoadenine	Cl	H
CF_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	H
CF_3	O-amino acid	Cl	S	2-Aminohypoxanthine	Cl	H
CF_3	O-amino acid	Cl	S	2-N-acetylguanine	Cl	H
CF_3	O-amino acid	Cl	S	4-N-acetylcytosine	Cl	H
CF_3	O-amino acid	Cl	S	6-N-acetyladenine	Cl	H

Gilead Exhibit 2015
PGR2023-00046 - Page 00909

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	H
CF_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	Cl	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	Cl	H
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CF_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	Cl	H
CF_3	O-amino acid	Cl	S	Thymine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	Uracil	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	Guanine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	Cytosine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	Adenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	Hypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	5-Fluorouracil	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	2-Aminoadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	Thymine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	Uracil	Cl	O-acyl
CF_3	O-amino acid	Cl	S	Guanine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	Cytosine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	Adenine	Cl	O-acyl

Gilead Exhibit 2015
PGR2023-00046 - Page 00910

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	S	Hypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	5-Fluorouracil	Cl	O-acyl
CF_3	O-amino acid	Cl	S	8-Fluoroguanine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	5-Fluorocytosine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	8-Fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	2-Fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	2-Aminoadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylguanine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyladenine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	Thymine	Cl	OH
CF_3	O-amino acid	Cl	S	Uracil	Cl	OH
CF_3	O-amino acid	Cl	S	Guanine	Cl	OH
CF_3	O-amino acid	Cl	S	Cytosine	Cl	OH
CF_3	O-amino acid	Cl	S	Adenine	Cl	OH
CF_3	O-amino acid	Cl	S	Hypoxanthine	Cl	OH
CF_3	O-amino acid	Cl	S	5-Fluorouracil	Cl	OH
CF_3	O-amino acid	Cl	S	8-Fluoroguanine	Cl	OH
CF_3	O-amino acid	Cl	S	5-Fluorocytosine	Cl	OH
CF_3	O-amino acid	Cl	S	8-Fluoroadenine	Cl	OH
CF_3	O-amino acid	Cl	S	2-Fluoroadenine	Cl	OH
CF_3	O-amino acid	Cl	S	2,8-Difluoroadenine	Cl	OH
CF_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	Cl	OH
CF_3	O-amino acid	Cl	S	2-Aminoadenine	Cl	OH
CF_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	Cl	S	2-Aminohypoxanthine	Cl	OH
CF_3	O-amino acid	Cl	S	2-N-acetylguanine	Cl	OH

Gilead Exhibit 2015
PGR2023-00046 - Page 00911

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	S	4-N-acetylcytosine	Cl	OH
CF_3	O-amino acid	Cl	S	6-N-acetyladenine	Cl	OH
CF_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	OH
CF_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	OH
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	OH
CF_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	Cl	OH
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	Cl	OH
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	Cl	OH
CF_3	O-amino acid	Cl	S	Thymine	H	H
CF_3	O-amino acid	Cl	S	Uracil	H	H
CF_3	O-amino acid	Cl	S	Guanine	H	H
CF_3	O-amino acid	Cl	S	Cytosine	H	H
CF_3	O-amino acid	Cl	S	Adenine	H	H
CF_3	O-amino acid	Cl	S	Hypoxanthine	H	H
CF_3	O-amino acid	Cl	S	5-Fluorouracil	H	H
CF_3	O-amino acid	Cl	S	8-Fluoroguanine	H	H
CF_3	O-amino acid	Cl	S	5-Fluorocytosine	H	H
CF_3	O-amino acid	Cl	S	8-Fluoroadenine	H	H
CF_3	O-amino acid	Cl	S	2-Fluoroadenine	H	H
CF_3	O-amino acid	Cl	S	2,8-Difluoroadenine	H	H
CF_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	H	H
CF_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	H	H
CF_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	H	H
CF_3	O-amino acid	Cl	S	2-Aminoadenine	H	H
CF_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	H	H
CF_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	H	H
CF_3	O-amino acid	Cl	S	2-Aminohypoxanthine	H	H
CF_3	O-amino acid	Cl	S	2-N-acetylguanine	H	H
CF_3	O-amino acid	Cl	S	4-N-acetylcytosine	H	H
CF_3	O-amino acid	Cl	S	6-N-acetyladenine	H	H
CF_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	H	H
CF_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	H	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	H	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	H	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CF_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	H	H
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	H	H
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	H
CF_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	H	H
CF_3	O-amino acid	Cl	S	Thymine	H	O-amino acid
CF_3	O-amino acid	Cl	S	Uracil	H	O-amino acid
CF_3	O-amino acid	Cl	S	Guanine	H	O-amino acid

Gilead Exhibit 2015
PGR2023-00046 - Page 00912

R^8	R^7	R^6	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	S	Cytosine	H	O-amino acid
CF_3	O-amino acid	Cl	S	Adenine	H	O-amino acid
CF_3	O-amino acid	Cl	S	Hypoxanthine	H	O-amino acid
CF_3	O-amino acid	Cl	S	5-Fluorouracil	H	O-amino acid
CF_3	O-amino acid	Cl	S	8-Fluoroguanine	H	O-amino acid
CF_3	O-amino acid	Cl	S	5-Fluorocytosine	H	O-amino acid
CF_3	O-amino acid	Cl	S	8-Fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Cl	S	2-Fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Cl	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Cl	S	2-Aminoadenine	H	O-amino acid
CF_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Cl	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylguanine	H	O-amino acid
CF_3	O-amino acid	Cl	S	4-N-acetylcytosine	H	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyladenine	H	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Cl	S	Thymine	H	O-acyl
CF_3	O-amino acid	Cl	S	Uracil	H	O-acyl
CF_3	O-amino acid	Cl	S	Guanine	H	O-acyl
CF_3	O-amino acid	Cl	S	Cytosine	H	O-acyl
CF_3	O-amino acid	Cl	S	Adenine	H	O-acyl
CF_3	O-amino acid	Cl	S	Hypoxanthine	H	O-acyl
CF_3	O-amino acid	Cl	S	5-Fluorouracil	H	O-acyl
CF_3	O-amino acid	Cl	S	8-Fluoroguanine	H	O-acyl
CF_3	O-amino acid	Cl	S	5-Fluorocytosine	H	O-acyl
CF_3	O-amino acid	Cl	S	8-Fluoroadenine	H	O-acyl
CF_3	O-amino acid	Cl	S	2-Fluoroadenine	H	O-acyl
CF_3	O-amino acid	Cl	S	2,8-Difluoroadenine	H	O-acyl
CF_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	Cl	S	2-Aminoadenine	H	O-acyl
CF_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	H	O-acyl

Gilead Exhibit 2015
PGR2023-00046 - Page 00913

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	S	2-Aminohypoxanthine	H	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylguanine	H	O-acyl
CF_3	O-amino acid	Cl	S	4-N-acetylcytosine	H	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyladenine	H	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	O-amino acid	Cl	S	Thymine	H	OH
CF_3	O-amino acid	Cl	S	Uracil	H	OH
CF_3	O-amino acid	Cl	S	Guanine	H	OH
CF_3	O-amino acid	Cl	S	Cytosine	H	OH
CF_3	O-amino acid	Cl	S	Adenine	H	OH
CF_3	O-amino acid	Cl	S	Hypoxanthine	H	OH
CF_3	O-amino acid	Cl	S	5-Fluorouracil	H	OH
CF_3	O-amino acid	Cl	S	8-Fluoroguanine	H	OH
CF_3	O-amino acid	Cl	S	5-Fluorocytosine	H	OH
CF_3	O-amino acid	Cl	S	8-Fluoroadenine	H	OH
CF_3	O-amino acid	Cl	S	2-Fluoroadenine	H	OH
CF_3	O-amino acid	Cl	S	2,8-Difluoroadenine	H	OH
CF_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	H	OH
CF_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	H	OH
CF_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	H	OH
CF_3	O-amino acid	Cl	S	2-Aminoadenine	H	OH
CF_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	H	OH
CF_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	H	OH
CF_3	O-amino acid	Cl	S	2-Aminohypoxanthine	H	OH
CF_3	O-amino acid	Cl	S	2-N-acetylguanine	H	OH
CF_3	O-amino acid	Cl	S	4-N-acetylcytosine	H	OH
CF_3	O-amino acid	Cl	S	6-N-acetyladenine	H	OH
CF_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	H	OH
CF_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	H	OH
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	H	OH
CF_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	OH
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	H	OH
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CF_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	H	OH
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	H	OH
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CF_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	H	OH
CF_3	O-amino acid	Cl	S	Thymine	OH	H

Gilead Exhibit 2015
PGR2023-00046 - Page 00914

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	S	Uracil	OH	H
CF_3	O-amino acid	Cl	S	Guanine	OH	H
CF_3	O-amino acid	Cl	S	Cytosine	OH	H
CF_3	O-amino acid	Cl	S	Adenine	OH	H
CF_3	O-amino acid	Cl	S	Hypoxanthine	OH	H
CF_3	O-amino acid	Cl	S	5-Fluorouracil	OH	H
CF_3	O-amino acid	Cl	S	8-Fluoroguanine	OH	H
CF_3	O-amino acid	Cl	S	5-Fluorocytosine	OH	H
CF_3	O-amino acid	Cl	S	8-Fluoroadenine	OH	H
CF_3	O-amino acid	Cl	S	2-Fluoroadenine	OH	H
CF_3	O-amino acid	Cl	S	2,8-Difluoroadenine	OH	H
CF_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	OH	H
CF_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	OH	H
CF_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	OH	H
CF_3	O-amino acid	Cl	S	2-Aminoadenine	OH	H
CF_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	OH	H
CF_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	OH	H
CF_3	O-amino acid	Cl	S	2-Aminohypoxanthine	OH	H
CF_3	O-amino acid	Cl	S	2-N-acetylguanine	OH	H
CF_3	O-amino acid	Cl	S	4-N-acetylcytosine	OH	H
CF_3	O-amino acid	Cl	S	6-N-acetyladenine	OH	H
CF_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	OH	H
CF_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	OH	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	OH	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	OH	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	OH	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CF_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	OH	H
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	OH	H
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CF_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	OH	H
CF_3	O-amino acid	H	S	Thymine	F	H
CF_3	O-amino acid	H	S	Uracil	F	H
CF_3	O-amino acid	H	S	Guanine	F	H
CF_3	O-amino acid	H	S	Cytosine	F	H
CF_3	O-amino acid	H	S	Adenine	F	H
CF_3	O-amino acid	H	S	Hypoxanthine	F	H
CF_3	O-amino acid	H	S	5-Fluorouracil	F	H
CF_3	O-amino acid	H	S	8-Fluoroguanine	F	H
CF_3	O-amino acid	H	S	5-Fluorocytosine	F	H
CF_3	O-amino acid	H	S	8-Fluoroadenine	F	H
CF_3	O-amino acid	H	S	2-Fluoroadenine	F	H
CF_3	O-amino acid	H	S	2,8-Difluoroadenine	F	H
CF_3	O-amino acid	H	S	2-Fluorohypoxanthine	F	H
CF_3	O-amino acid	H	S	8-Fluorohypoxanthine	F	H
CF_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	F	H
CF_3	O-amino acid	H	S	2-Aminoadenine	F	H

Gilead Exhibit 2015
PGR2023-00046 - Page 00915

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	F	H
CF_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	F	H
CF_3	O-amino acid	H	S	2-Aminohypoxanthine	F	H
CF_3	O-amino acid	H	S	2-N-acetylguanine	F	H
CF_3	O-amino acid	H	S	4-N-acetylcytosine	F	H
CF_3	O-amino acid	H	S	6-N-acetyladenine	F	H
CF_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	F	H
CF_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	F	H
CF_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	F	H
CF_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	F	H
CF_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	F	H
CF_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CF_3	O-amino acid	H	S	2-N-acetylaminoadenine	F	H
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	F	H
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	H
CF_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	F	H
CF_3	O-amino acid	H	S	Thymine	F	O-amino acid
CF_3	O-amino acid	H	S	Uracil	F	O-amino acid
CF_3	O-amino acid	H	S	Guanine	F	O-amino acid
CF_3	O-amino acid	H	S	Cytosine	F	O-amino acid
CF_3	O-amino acid	H	S	Adenine	F	O-amino acid
CF_3	O-amino acid	H	S	Hypoxanthine	F	O-amino acid
CF_3	O-amino acid	H	S	5-Fluorouracil	F	O-amino acid
CF_3	O-amino acid	H	S	8-Fluoroguanine	F	O-amino acid
CF_3	O-amino acid	H	S	5-Fluorocytosine	F	O-amino acid
CF_3	O-amino acid	H	S	8-Fluoroadenine	F	O-amino acid
CF_3	O-amino acid	H	S	2-Fluoroadenine	F	O-amino acid
CF_3	O-amino acid	H	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	O-amino acid	H	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	H	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	H	S	2-Aminoadenine	F	O-amino acid
CF_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	H	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylguanine	F	O-amino acid
CF_3	O-amino acid	H	S	4-N-acetylcytosine	F	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyladenine	F	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid

Gilead Exhibit 2015
PGR2023-00046 - Page 00916

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	O-amino acid	H	S	Thymine	F	O-acyl
CF_3	O-amino acid	H	S	Uracil	F	O-acyl
CF_3	O-amino acid	H	S	Guanine	F	O-acyl
CF_3	O-amino acid	H	S	Cytosine	F	O-acyl
CF_3	O-amino acid	H	S	Adenine	F	O-acyl
CF_3	O-amino acid	H	S	Hypoxanthine	F	O-acyl
CF_3	O-amino acid	H	S	5-Fluorouracil	F	O-acyl
CF_3	O-amino acid	H	S	8-Fluoroguanine	F	O-acyl
CF_3	O-amino acid	H	S	5-Fluorocytosine	F	O-acyl
CF_3	O-amino acid	H	S	8-Fluoroadenine	F	O-acyl
CF_3	O-amino acid	H	S	2-Fluoroadenine	F	O-acyl
CF_3	O-amino acid	H	S	2,8-Difluoroadenine	F	O-acyl
CF_3	O-amino acid	H	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	H	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	H	S	2-Aminoadenine	F	O-acyl
CF_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	H	S	2-Aminohypoxanthine	F	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylguanine	F	O-acyl
CF_3	O-amino acid	H	S	4-N-acetylcytosine	F	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyladenine	F	O-acyl
CF_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	O-amino acid	H	S	Thymine	F	OH
CF_3	O-amino acid	H	S	Uracil	F	OH
CF_3	O-amino acid	H	S	Guanine	F	OH
CF_3	O-amino acid	H	S	Cytosine	F	OH
CF_3	O-amino acid	H	S	Adenine	F	OH
CF_3	O-amino acid	H	S	Hypoxanthine	F	OH
CF_3	O-amino acid	H	S	5-Fluorouracil	F	OH
CF_3	O-amino acid	H	S	8-Fluoroguanine	F	OH
CF_3	O-amino acid	H	S	5-Fluorocytosine	F	OH
CF_3	O-amino acid	H	S	8-Fluoroadenine	F	OH
CF_3	O-amino acid	H	S	2-Fluoroadenine	F	OH
CF_3	O-amino acid	H	S	2,8-Difluoroadenine	F	OH
CF_3	O-amino acid	H	S	2-Fluorohypoxanthine	F	OH
CF_3	O-amino acid	H	S	8-Fluorohypoxanthine	F	OH

Gilead Exhibit 2015
PGR2023-00046 - Page 00917

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	F	OH
CF_3	O-amino acid	H	S	2-Aminoadenine	F	OH
CF_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	F	OH
CF_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	F	OH
CF_3	O-amino acid	H	S	2-Aminohypoxanthine	F	OH
CF_3	O-amino acid	H	S	2-N-acetylguanine	F	OH
CF_3	O-amino acid	H	S	4-N-acetylcytosine	F	OH
CF_3	O-amino acid	H	S	6-N-acetyladenine	F	OH
CF_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	F	OH
CF_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	F	OH
CF_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	F	OH
CF_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	F	OH
CF_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	F	OH
CF_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CF_3	O-amino acid	H	S	2-N-acetylaminoadenine	F	OH
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	F	OH
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CF_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	F	OH
CF_3	O-amino acid	H	S	Thymine	Br	H
CF_3	O-amino acid	H	S	Uracil	Br	H
CF_3	O-amino acid	H	S	Guanine	Br	H
CF_3	O-amino acid	H	S	Cytosine	Br	H
CF_3	O-amino acid	H	S	Adenine	Br	H
CF_3	O-amino acid	H	S	Hypoxanthine	Br	H
CF_3	O-amino acid	H	S	5-Fluorouracil	Br	H
CF_3	O-amino acid	H	S	8-Fluoroguanine	Br	H
CF_3	O-amino acid	H	S	5-Fluorocytosine	Br	H
CF_3	O-amino acid	H	S	8-Fluoroadenine	Br	H
CF_3	O-amino acid	H	S	2-Fluoroadenine	Br	H
CF_3	O-amino acid	H	S	2,8-Difluoroadenine	Br	H
CF_3	O-amino acid	H	S	2-Fluorohypoxanthine	Br	H
CF_3	O-amino acid	H	S	8-Fluorohypoxanthine	Br	H
CF_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	Br	H
CF_3	O-amino acid	H	S	2-Aminoadenine	Br	H
CF_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	Br	H
CF_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	Br	H
CF_3	O-amino acid	H	S	2-Aminohypoxanthine	Br	H
CF_3	O-amino acid	H	S	2-N-acetylguanine	Br	H
CF_3	O-amino acid	H	S	4-N-acetylcytosine	Br	H
CF_3	O-amino acid	H	S	6-N-acetyladenine	Br	H
CF_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	Br	H
CF_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	Br	H
CF_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	Br	H
CF_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	Br	H
CF_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	Br	H
CF_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CF_3	O-amino acid	H	S	2-N-acetylaminoadenine	Br	H

Gilead Exhibit 2015
PGR2023-00046 - Page 00918

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	Br	H
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CF_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	Br	H
CF_3	O-amino acid	H	S	Thymine	Br	O-amino acid
CF_3	O-amino acid	H	S	Uracil	Br	O-amino acid
CF_3	O-amino acid	H	S	Guanine	Br	O-amino acid
CF_3	O-amino acid	H	S	Cytosine	Br	O-amino acid
CF_3	O-amino acid	H	S	Adenine	Br	O-amino acid
CF_3	O-amino acid	H	S	Hypoxanthine	Br	O-amino acid
CF_3	O-amino acid	H	S	5-Fluorouracil	Br	O-amino acid
CF_3	O-amino acid	H	S	8-Fluoroguanine	Br	O-amino acid
CF_3	O-amino acid	H	S	5-Fluorocytosine	Br	O-amino acid
CF_3	O-amino acid	H	S	8-Fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	H	S	2-Fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	H	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	O-amino acid	H	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	H	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	H	S	2-Aminoadenine	Br	O-amino acid
CF_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	H	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylguanine	Br	O-amino acid
CF_3	O-amino acid	H	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyladenine	Br	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	H	S	Thymine	Br	O-acyl
CF_3	O-amino acid	H	S	Uracil	Br	O-acyl
CF_3	O-amino acid	H	S	Guanine	Br	O-acyl
CF_3	O-amino acid	H	S	Cytosine	Br	O-acyl
CF_3	O-amino acid	H	S	Adenine	Br	O-acyl
CF_3	O-amino acid	H	S	Hypoxanthine	Br	O-acyl
CF_3	O-amino acid	H	S	5-Fluorouracil	Br	O-acyl
CF_3	O-amino acid	H	S	8-Fluoroguanine	Br	O-acyl
CF_3	O-amino acid	H	S	5-Fluorocytosine	Br	O-acyl
CF_3	O-amino acid	H	S	8-Fluoroadenine	Br	O-acyl
CF_3	O-amino acid	H	S	2-Fluoroadenine	Br	O-acyl
CF_3	O-amino acid	H	S	2,8-Difluoroadenine	Br	O-acyl

Gilead Exhibit 2015
PGR2023-00046 - Page 00919

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	S	2-Fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	H	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	H	S	2-Aminoadenine	Br	O-acyl
CF_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	H	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylguanine	Br	O-acyl
CF_3	O-amino acid	H	S	4-N-acetylcytosine	Br	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyladenine	Br	O-acyl
CF_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	O-amino acid	H	S	Thymine	Br	OH
CF_3	O-amino acid	H	S	Uracil	Br	OH
CF_3	O-amino acid	H	S	Guanine	Br	OH
CF_3	O-amino acid	H	S	Cytosine	Br	OH
CF_3	O-amino acid	H	S	Adenine	Br	OH
CF_3	O-amino acid	H	S	Hypoxanthine	Br	OH
CF_3	O-amino acid	H	S	5-Fluorouracil	Br	OH
CF_3	O-amino acid	H	S	8-Fluoroguanine	Br	OH
CF_3	O-amino acid	H	S	5-Fluorocytosine	Br	OH
CF_3	O-amino acid	H	S	8-Fluoroadenine	Br	OH
CF_3	O-amino acid	H	S	2-Fluoroadenine	Br	OH
CF_3	O-amino acid	H	S	2,8-Difluoroadenine	Br	OH
CF_3	O-amino acid	H	S	2-Fluorohypoxanthine	Br	OH
CF_3	O-amino acid	H	S	8-Fluorohypoxanthine	Br	OH
CF_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	Br	OH
CF_3	O-amino acid	H	S	2-Aminoadenine	Br	OH
CF_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	Br	OH
CF_3	O-amino acid	H	S	2-Aminohypoxanthine	Br	OH
CF_3	O-amino acid	H	S	2-N-acetylguanine	Br	OH
CF_3	O-amino acid	H	S	4-N-acetylcytosine	Br	OH
CF_3	O-amino acid	H	S	6-N-acetyladenine	Br	OH
CF_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	Br	OH
CF_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	Br	OH
CF_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	Br	OH
CF_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	Br	OH
CF_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	Br	OH

Gilead Exhibit 2015
PGR2023-00046 - Page 00920

R^6	R^7	R^9	X	Base	R^{10}	R^3
CF_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	H	S	2-N-acetylaminoadenine	Br	OH
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CF_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	Br	OH
CF_3	O-amino acid	H	S	Thymine	Cl	H
CF_3	O-amino acid	H	S	Uracil	Cl	H
CF_3	O-amino acid	H	S	Guanine	Cl	H
CF_3	O-amino acid	H	S	Cytosine	Cl	H
CF_3	O-amino acid	H	S	Adenine	Cl	H
CF_3	O-amino acid	H	S	Hypoxanthine	Cl	H
CF_3	O-amino acid	H	S	5-Fluorouracil	Cl	H
CF_3	O-amino acid	H	S	8-Fluoroguanine	Cl	H
CF_3	O-amino acid	H	S	5-Fluorocytosine	Cl	H
CF_3	O-amino acid	H	S	8-Fluoroadenine	Cl	H
CF_3	O-amino acid	H	S	2-Fluoroadenine	Cl	H
CF_3	O-amino acid	H	S	2,8-Difluoroadenine	Cl	H
CF_3	O-amino acid	H	S	2-Fluorohypoxanthine	Cl	H
CF_3	O-amino acid	H	S	8-Fluorohypoxanthine	Cl	H
CF_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	Cl	H
CF_3	O-amino acid	H	S	2-Aminoadenine	Cl	H
CF_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	Cl	H
CF_3	O-amino acid	H	S	2-Aminohypoxanthine	Cl	H
CF_3	O-amino acid	H	S	2-N-acetylguanine	Cl	H
CF_3	O-amino acid	H	S	4-N-acetylcytosine	Cl	H
CF_3	O-amino acid	H	S	6-N-acetyladenine	Cl	H
CF_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	Cl	H
CF_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	Cl	H
CF_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	Cl	H
CF_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	H
CF_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	Cl	H
CF_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	H	S	2-N-acetylaminoadenine	Cl	H
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CF_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	Cl	H
CF_3	O-amino acid	H	S	Thymine	Cl	O-amino acid
CF_3	O-amino acid	H	S	Uracil	Cl	O-amino acid
CF_3	O-amino acid	H	S	Guanine	Cl	O-amino acid
CF_3	O-amino acid	H	S	Cytosine	Cl	O-amino acid
CF_3	O-amino acid	H	S	Adenine	Cl	O-amino acid
CF_3	O-amino acid	H	S	Hypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	H	S	5-Fluorouracil	Cl	O-amino acid
CF_3	O-amino acid	H	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	O-amino acid	H	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	O-amino acid	H	S	8-Fluoroadenine	Cl	O-amino acid

Gilead Exhibit 2015
PGR2023-00046 - Page 00921

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	H	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	H	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	H	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	H	S	2-Aminoadenine	Cl	O-amino acid
CF_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	H	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	O-amino acid	H	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	H	S	Thymine	Cl	O-acyl
CF_3	O-amino acid	H	S	Uracil	Cl	O-acyl
CF_3	O-amino acid	H	S	Guanine	Cl	O-acyl
CF_3	O-amino acid	H	S	Cytosine	Cl	O-acyl
CF_3	O-amino acid	H	S	Adenine	Cl	O-acyl
CF_3	O-amino acid	H	S	Hypoxanthine	Cl	O-acyl
CF_3	O-amino acid	H	S	5-Fluorouracil	Cl	O-acyl
CF_3	O-amino acid	H	S	8-Fluoroguanine	Cl	O-acyl
CF_3	O-amino acid	H	S	5-Fluorocytosine	Cl	O-acyl
CF_3	O-amino acid	H	S	8-Fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	H	S	2-Fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	H	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	O-amino acid	H	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	H	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	H	S	2-Aminoadenine	Cl	O-acyl
CF_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	H	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylguanine	Cl	O-acyl
CF_3	O-amino acid	H	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyladenine	Cl	O-acyl
CF_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl

Gilead Exhibit 2015
PGR2023-00046 - Page 00922

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	H	S	Thymine	Cl	OH
CF_3	O-amino acid	H	S	Uracil	Cl	OH
CF_3	O-amino acid	H	S	Guanine	Cl	OH
CF_3	O-amino acid	H	S	Cytosine	Cl	OH
CF_3	O-amino acid	H	S	Adenine	Cl	OH
CF_3	O-amino acid	H	S	Hypoxanthine	Cl	OH
CF_3	O-amino acid	H	S	5-Fluorouracil	Cl	OH
CF_3	O-amino acid	H	S	8-Fluoroguanine	Cl	OH
CF_3	O-amino acid	H	S	5-Fluorocytosine	Cl	OH
CF_3	O-amino acid	H	S	8-Fluoroadenine	Cl	OH
CF_3	O-amino acid	H	S	2-Fluoroadenine	Cl	OH
CF_3	O-amino acid	H	S	2,8-Difluoroadenine	Cl	OH
CF_3	O-amino acid	H	S	2-Fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	H	S	8-Fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	Cl	OH
CF_3	O-amino acid	H	S	2-Aminoadenine	Cl	OH
CF_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	H	S	2-Aminohypoxanthine	Cl	OH
CF_3	O-amino acid	H	S	2-N-acetylguanine	Cl	OH
CF_3	O-amino acid	H	S	4-N-acetylcytosine	Cl	OH
CF_3	O-amino acid	H	S	6-N-acetyladenine	Cl	OH
CF_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	Cl	OH
CF_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	Cl	OH
CF_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	Cl	OH
CF_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CF_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	Cl	OH
CF_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	H	S	2-N-acetylaminoadenine	Cl	OH
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	Cl	OH
CF_3	O-amino acid	H	S	Thymine	H	H
CF_3	O-amino acid	H	S	Uracil	H	H
CF_3	O-amino acid	H	S	Guanine	H	H
CF_3	O-amino acid	H	S	Cytosine	H	H
CF_3	O-amino acid	H	S	Adenine	H	H
CF_3	O-amino acid	H	S	Hypoxanthine	H	H
CF_3	O-amino acid	H	S	5-Fluorouracil	H	H
CF_3	O-amino acid	H	S	8-Fluoroguanine	H	H

Gilead Exhibit 2015
PGR2023-00046 - Page 00923

R[6]	R[7]	R[8]	X	Base	R[10]	R[9]
CF_3	O-amino acid	H	S	5-Fluorocytosine	H	H
CF_3	O-amino acid	H	S	8-Fluoroadenine	H	H
CF_3	O-amino acid	H	S	2-Fluoroadenine	H	H
CF_3	O-amino acid	H	S	2,8-Difluoroadenine	H	H
CF_3	O-amino acid	H	S	2-Fluorohypoxanthine	H	H
CF_3	O-amino acid	H	S	8-Fluorohypoxanthine	H	H
CF_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	H	H
CF_3	O-amino acid	H	S	2-Aminoadenine	H	H
CF_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	H	H
CF_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	H	H
CF_3	O-amino acid	H	S	2-Aminohypoxanthine	H	H
CF_3	O-amino acid	H	S	2-N-acetylguanine	H	H
CF_3	O-amino acid	H	S	4-N-acetylcytosine	H	H
CF_3	O-amino acid	H	S	6-N-acetyladenine	H	H
CF_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	H	H
CF_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	H	H
CF_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	H	H
CF_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	H	H
CF_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	H	H
CF_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CF_3	O-amino acid	H	S	2-N-acetylaminoadenine	H	H
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	H	H
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	H
CF_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	H	H
CF_3	O-amino acid	H	S	Thymine	H	O-amino acid
CF_3	O-amino acid	H	S	Uracil	H	O-amino acid
CF_3	O-amino acid	H	S	Guanine	H	O-amino acid
CF_3	O-amino acid	H	S	Cytosine	H	O-amino acid
CF_3	O-amino acid	H	S	Adenine	H	O-amino acid
CF_3	O-amino acid	H	S	Hypoxanthine	H	O-amino acid
CF_3	O-amino acid	H	S	5-Fluorouracil	H	O-amino acid
CF_3	O-amino acid	H	S	8-Fluoroguanine	H	O-amino acid
CF_3	O-amino acid	H	S	5-Fluorocytosine	H	O-amino acid
CF_3	O-amino acid	H	S	8-Fluoroadenine	H	O-amino acid
CF_3	O-amino acid	H	S	2-Fluoroadenine	H	O-amino acid
CF_3	O-amino acid	H	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	O-amino acid	H	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	H	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	H	S	2-Aminoadenine	H	O-amino acid
CF_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	H	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylguanine	H	O-amino acid
CF_3	O-amino acid	H	S	4-N-acetylcytosine	H	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyladenine	H	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid

Gilead Exhibit 2015
PGR2023-00046 - Page 00924

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	O-amino acid	H	S	Thymine	H	O-acyl
CF_3	O-amino acid	H	S	Uracil	H	O-acyl
CF_3	O-amino acid	H	S	Guanine	H	O-acyl
CF_3	O-amino acid	H	S	Cytosine	H	O-acyl
CF_3	O-amino acid	H	S	Adenine	H	O-acyl
CF_3	O-amino acid	H	S	Hypoxanthine	H	O-acyl
CF_3	O-amino acid	H	S	5-Fluorouracil	H	O-acyl
CF_3	O-amino acid	H	S	8-Fluoroguanine	H	O-acyl
CF_3	O-amino acid	H	S	5-Fluorocytosine	H	O-acyl
CF_3	O-amino acid	H	S	8-Fluoroadenine	H	O-acyl
CF_3	O-amino acid	H	S	2-Fluoroadenine	H	O-acyl
CF_3	O-amino acid	H	S	2,8-Difluoroadenine	H	O-acyl
CF_3	O-amino acid	H	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	H	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	H	S	2-Aminoadenine	H	O-acyl
CF_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	H	S	2-Aminohypoxanthine	H	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylguanine	H	O-acyl
CF_3	O-amino acid	H	S	4-N-acetylcytosine	H	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyladenine	H	O-acyl
CF_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	O-amino acid	H	S	Thymine	H	OH
CF_3	O-amino acid	H	S	Uracil	H	OH
CF_3	O-amino acid	H	S	Guanine	H	OH
CF_3	O-amino acid	H	S	Cytosine	H	OH
CF_3	O-amino acid	H	S	Adenine	H	OH
CF_3	O-amino acid	H	S	Hypoxanthine	H	OH

Gilead Exhibit 2015
PGR2023-00046 - Page 00925

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	S	5-Fluorouracil	H	OH
CF_3	O-amino acid	H	S	8-Fluoroguanine	H	OH
CF_3	O-amino acid	H	S	5-Fluorocytosine	H	OH
CF_3	O-amino acid	H	S	8-Fluoroadenine	H	OH
CF_3	O-amino acid	H	S	2-Fluoroadenine	H	OH
CF_3	O-amino acid	H	S	2,8-Difluoroadenine	H	OH
CF_3	O-amino acid	H	S	2-Fluorohypoxanthine	H	OH
CF_3	O-amino acid	H	S	8-Fluorohypoxanthine	H	OH
CF_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	H	OH
CF_3	O-amino acid	H	S	2-Aminoadenine	H	OH
CF_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	H	OH
CF_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	H	OH
CF_3	O-amino acid	H	S	2-Aminohypoxanthine	H	OH
CF_3	O-amino acid	H	S	2-N-acetylguanine	H	OH
CF_3	O-amino acid	H	S	4-N-acetylcytosine	H	OH
CF_3	O-amino acid	H	S	6-N-acetyladenine	H	OH
CF_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	H	OH
CF_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	H	OH
CF_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	H	OH
CF_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	H	OH
CF_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	H	OH
CF_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CF_3	O-amino acid	H	S	2-N-acetylaminoadenine	H	OH
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	H	OH
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CF_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	H	OH
CF_3	O-amino acid	H	S	Thymine	OH	H
CF_3	O-amino acid	H	S	Uracil	OH	H
CF_3	O-amino acid	H	S	Guanine	OH	H
CF_3	O-amino acid	H	S	Cytosine	OH	H
CF_3	O-amino acid	H	S	Adenine	OH	H
CF_3	O-amino acid	H	S	Hypoxanthine	OH	H
CF_3	O-amino acid	H	S	5-Fluorouracil	OH	H
CF_3	O-amino acid	H	S	8-Fluoroguanine	OH	H
CF_3	O-amino acid	H	S	5-Fluorocytosine	OH	H
CF_3	O-amino acid	H	S	8-Fluoroadenine	OH	H
CF_3	O-amino acid	H	S	2-Fluoroadenine	OH	H
CF_3	O-amino acid	H	S	2,8-Difluoroadenine	OH	H
CF_3	O-amino acid	H	S	2-Fluorohypoxanthine	OH	H
CF_3	O-amino acid	H	S	8-Fluorohypoxanthine	OH	H
CF_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	OH	H
CF_3	O-amino acid	H	S	2-Aminoadenine	OH	H
CF_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	OH	H
CF_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	OH	H
CF_3	O-amino acid	H	S	2-Aminohypoxanthine	OH	H
CF_3	O-amino acid	H	S	2-N-acetylguanine	OH	H
CF_3	O-amino acid	H	S	4-N-acetylcytosine	OH	H

Gilead Exhibit 2015
PGR2023-00046 - Page 00926

R^6	R^7	R^9	X	Base	R^{10}	R^5
CF_3	O-amino acid	H	S	6-N-acetyladenine	OH	H
CF_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	OH	H
CF_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	OH	H
CF_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	OH	H
CF_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	OH	H
CF_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	OH	H
CF_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CF_3	O-amino acid	H	S	2-N-acetylaminoadenine	OH	H
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	OH	H
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CF_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	OH	H
CF_3	OH	F	S	Thymine	F	O-amino acid
CF_3	OH	F	S	Uracil	F	O-amino acid
CF_3	OH	F	S	Guanine	F	O-amino acid
CF_3	OH	F	S	Cytosine	F	O-amino acid
CF_3	OH	F	S	Adenine	F	O-amino acid
CF_3	OH	F	S	Hypoxanthine	F	O-amino acid
CF_3	OH	F	S	5-Fluorouracil	F	O-amino acid
CF_3	OH	F	S	8-Fluoroguanine	F	O-amino acid
CF_3	OH	F	S	5-Fluorocytosine	F	O-amino acid
CF_3	OH	F	S	8-Fluoroadenine	F	O-amino acid
CF_3	OH	F	S	2-Fluoroadenine	F	O-amino acid
CF_3	OH	F	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	OH	F	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	OH	F	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	OH	F	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	OH	F	S	2-Aminoadenine	F	O-amino acid
CF_3	OH	F	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	OH	F	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	OH	F	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	OH	F	S	2-N-acetylguanine	F	O-amino acid
CF_3	OH	F	S	4-N-acetylcytosine	F	O-amino acid
CF_3	OH	F	S	6-N-acetyladenine	F	O-amino acid
CF_3	OH	F	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	OH	F	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	OH	F	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	OH	F	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	OH	F	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	OH	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	OH	F	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	OH	F	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	OH	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	OH	F	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	OH	F	S	Thymine	F	O-acyl
CF_3	OH	F	S	Uracil	F	O-acyl
CF_3	OH	F	S	Guanine	F	O-acyl
CF_3	OH	F	S	Cytosine	F	O-acyl

Gilead Exhibit 2015
PGR2023-00046 - Page 00927

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	F	S	Adenine	F	O-acyl
CF_3	OH	F	S	Hypoxanthine	F	O-acyl
CF_3	OH	F	S	5-Fluorouracil	F	O-acyl
CF_3	OH	F	S	8-Fluoroguanine	F	O-acyl
CF_3	OH	F	S	5-Fluorocytosine	F	O-acyl
CF_3	OH	F	S	8-Fluoroadenine	F	O-acyl
CF_3	OH	F	S	2-Fluoroadenine	F	O-acyl
CF_3	OH	F	S	2,8-Difluoroadenine	F	O-acyl
CF_3	OH	F	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	OH	F	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	OH	F	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	OH	F	S	2-Aminoadenine	F	O-acyl
CF_3	OH	F	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	OH	F	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	OH	F	S	2-Aminohypoxanthine	F	O-acyl
CF_3	OH	F	S	2-N-acetylguanine	F	O-acyl
CF_3	OH	F	S	4-N-acetylcytosine	F	O-acyl
CF_3	OH	F	S	6-N-acetyladenine	F	O-acyl
CF_3	OH	F	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	OH	F	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	OH	F	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	OH	F	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	OH	F	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	OH	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	OH	F	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	OH	F	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	OH	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	OH	F	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	OH	F	S	Thymine	Br	O-amino acid
CF_3	OH	F	S	Uracil	Br	O-amino acid
CF_3	OH	F	S	Guanine	Br	O-amino acid
CF_3	OH	F	S	Cytosine	Br	O-amino acid
CF_3	OH	F	S	Adenine	Br	O-amino acid
CF_3	OH	F	S	Hypoxanthine	Br	O-amino acid
CF_3	OH	F	S	5-Fluorouracil	Br	O-amino acid
CF_3	OH	F	S	8-Fluoroguanine	Br	O-amino acid
CF_3	OH	F	S	5-Fluorocytosine	Br	O-amino acid
CF_3	OH	F	S	8-Fluoroadenine	Br	O-amino acid
CF_3	OH	F	S	2-Fluoroadenine	Br	O-amino acid
CF_3	OH	F	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	OH	F	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	OH	F	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	OH	F	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	OH	F	S	2-Aminoadenine	Br	O-amino acid
CF_3	OH	F	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	F	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	OH	F	S	2-Aminohypoxanthine	Br	O-amino acid

Gilead Exhibit 2015
PGR2023-00046 - Page 00928

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	F	S	2-N-acetylguanine	Br	O-amino acid
CF_3	OH	F	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	OH	F	S	6-N-acetyladenine	Br	O-amino acid
CF_3	OH	F	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	OH	F	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	OH	F	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	OH	F	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	OH	F	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	OH	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	F	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	OH	F	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	OH	F	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	OH	F	S	Thymine	Br	O-acyl
CF_3	OH	F	S	Uracil	Br	O-acyl
CF_3	OH	F	S	Guanine	Br	O-acyl
CF_3	OH	F	S	Cytosine	Br	O-acyl
CF_3	OH	F	S	Adenine	Br	O-acyl
CF_3	OH	F	S	Hypoxanthine	Br	O-acyl
CF_3	OH	F	S	5-Fluorouracil	Br	O-acyl
CF_3	OH	F	S	8-Fluoroguanine	Br	O-acyl
CF_3	OH	F	S	5-Fluorocytosine	Br	O-acyl
CF_3	OH	F	S	8-Fluoroadenine	Br	O-acyl
CF_3	OH	F	S	2-Fluoroadenine	Br	O-acyl
CF_3	OH	F	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	OH	F	S	2-Fluorohypoxanthine	Br	O-acyl
CF_3	OH	F	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	OH	F	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	OH	F	S	2-Aminoadenine	Br	O-acyl
CF_3	OH	F	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	OH	F	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	OH	F	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	OH	F	S	2-N-acetylguanine	Br	O-acyl
CF_3	OH	F	S	4-N-acetylcytosine	Br	O-acyl
CF_3	OH	F	S	6-N-acetyladenine	Br	O-acyl
CF_3	OH	F	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	OH	F	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	OH	F	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	OH	F	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	OH	F	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	OH	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	OH	F	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	OH	F	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	OH	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	OH	F	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	OH	F	S	Thymine	Cl	O-amino acid
CF_3	OH	F	S	Uracil	Cl	O-amino acid

Gilead Exhibit 2015
PGR2023-00046 - Page 00929

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	F	S	Guanine	Cl	O-amino acid
CF_3	OH	F	S	Cytosine	Cl	O-amino acid
CF_3	OH	F	S	Adenine	Cl	O-amino acid
CF_3	OH	F	S	Hypoxanthine	Cl	O-amino acid
CF_3	OH	F	S	5-Fluorouracil	Cl	O-amino acid
CF_3	OH	F	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	OH	F	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	OH	F	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	OH	F	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	OH	F	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	OH	F	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	F	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	F	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	OH	F	S	2-Aminoadenine	Cl	O-amino acid
CF_3	OH	F	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	F	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	F	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	OH	F	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	OH	F	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	OH	F	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	OH	F	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	OH	F	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	OH	F	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	OH	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	OH	F	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	OH	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	F	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	OH	F	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	F	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	OH	F	S	Thymine	Cl	O-acyl
CF_3	OH	F	S	Uracil	Cl	O-acyl
CF_3	OH	F	S	Guanine	Cl	O-acyl
CF_3	OH	F	S	Cytosine	Cl	O-acyl
CF_3	OH	F	S	Adenine	Cl	O-acyl
CF_3	OH	F	S	Hypoxanthine	Cl	O-acyl
CF_3	OH	F	S	5-Fluoreuracil	Cl	O-acyl
CF_3	OH	F	S	8-Fluoroguanine	Cl	O-acyl
CF_3	OH	F	S	5-Fluorocytosine	Cl	O-acyl
CF_3	OH	F	S	8-Fluoroadenine	Cl	O-acyl
CF_3	OH	F	S	2-Fluoroadenine	Cl	O-acyl
CF_3	OH	F	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	OH	F	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	OH	F	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	OH	F	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	OH	F	S	2-Aminoadenine	Cl	O-acyl
CF_3	OH	F	S	2-Amino-8-fluoroadenine	Cl	O-acyl

Gilead Exhibit 2015
PGR2023-00046 - Page 00930

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	F	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	OH	F	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	OH	F	S	2-N-acetylguanine	Cl	O-acyl
CF_3	OH	F	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	OH	F	S	6-N-acetyladenine	Cl	O-acyl
CF_3	OH	F	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	OH	F	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	OH	F	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	OH	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	OH	F	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	OH	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	F	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	OH	F	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	OH	F	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	OH	F	S	Thymine	H	O-amino acid
CF_3	OH	F	S	Uracil	H	O-amino acid
CF_3	OH	F	S	Guanine	H	O-amino acid
CF_3	OH	F	S	Cytosine	H	O-amino acid
CF_3	OH	F	S	Adenine	H	O-amino acid
CF_3	OH	F	S	Hypoxanthine	H	O-amino acid
CF_3	OH	F	S	5-Fluorouracil	H	O-amino acid
CF_3	OH	F	S	8-Fluoroguanine	H	O-amino acid
CF_3	OH	F	S	5-Fluorocytosine	H	O-amino acid
CF_3	OH	F	S	8-Fluoroadenine	H	O-amino acid
CF_3	OH	F	S	2-Fluoroadenine	H	O-amino acid
CF_3	OH	F	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	OH	F	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	OH	F	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	OH	F	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	OH	F	S	2-Aminoadenine	H	O-amino acid
CF_3	OH	F	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	OH	F	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	OH	F	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	OH	F	S	2-N-acetylguanine	H	O-amino acid
CF_3	OH	F	S	4-N-acetylcytosine	H	O-amino acid
CF_3	OH	F	S	6-N-acetyladenine	H	O-amino acid
CF_3	OH	F	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	OH	F	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	OH	F	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	OH	F	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	OH	F	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	OH	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	OH	F	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	OH	F	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	OH	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	OH	F	S	2-N-acetylaminohypoxanthine	H	O-amino acid

Gilead Exhibit 2015
PGR2023-00046 - Page 00931

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	F	S	Thymine	H	O-acyl
CF_3	OH	F	S	Uracil	H	O-acyl
CF_3	OH	F	S	Guanine	H	O-acyl
CF_3	OH	F	S	Cytosine	H	O-acyl
CF_3	OH	F	S	Adenine	H	O-acyl
CF_3	OH	F	S	Hypoxanthine	H	O-acyl
CF_3	OH	F	S	5-Fluorouracil	H	O-acyl
CF_3	OH	F	S	8-Fluoroguanine	H	O-acyl
CF_3	OH	F	S	5-Fluorocytosine	H	O-acyl
CF_3	OH	F	S	8-Fluoroadenine	H	O-acyl
CF_3	OH	F	S	2-Fluoroadenine	H	O-acyl
CF_3	OH	F	S	2,8-Difluoroadenine	H	O-acyl
CF_3	OH	F	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	OH	F	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	OH	F	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	OH	F	S	2-Aminoadenine	H	O-acyl
CF_3	OH	F	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	OH	F	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	OH	F	S	2-Aminohypoxanthine	H	O-acyl
CF_3	OH	F	S	2-N-acetylguanine	H	O-acyl
CF_3	OH	F	S	4-N-acetylcytosine	H	O-acyl
CF_3	OH	F	S	6-N-acetyladenine	H	O-acyl
CF_3	OH	F	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	OH	F	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	OH	F	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	OH	F	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	OH	F	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	OH	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	OH	F	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	OH	F	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	OH	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	OH	F	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	OH	Br	S	Thymine	F	O-amino acid
CF_3	OH	Br	S	Uracil	F	O-amino acid
CF_3	OH	Br	S	Guanine	F	O-amino acid
CF_3	OH	Br	S	Cytosine	F	O-amino acid
CF_3	OH	Br	S	Adenine	F	O-amino acid
CF_3	OH	Br	S	Hypoxanthine	F	O-amino acid
CF_3	OH	Br	S	5-Fluorouracil	F	O-amino acid
CF_3	OH	Br	S	8-Fluoroguanine	F	O-amino acid
CF_3	OH	Br	S	5-Fluorocytosine	F	O-amino acid
CF_3	OH	Br	S	8-Fluoroadenine	F	O-amino acid
CF_3	OH	Br	S	2-Fluoroadenine	F	O-amino acid
CF_3	OH	Br	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	OH	Br	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	OH	Br	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	OH	Br	S	2,8-Difluorohypoxanthine	F	O-amino acid

Gilead Exhibit 2015
PGR2023-00046 - Page 00932

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Br	S	2-Aminoadenine	F	O-amino acid
CF_3	OH	Br	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	OH	Br	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	OH	Br	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	OH	Br	S	2-N-acetylguanine	F	O-amino acid
CF_3	OH	Br	S	4-N-acetylcytosine	F	O-amino acid
CF_3	OH	Br	S	6-N-acetyladenine	F	O-amino acid
CF_3	OH	Br	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	OH	Br	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	OH	Br	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	OH	Br	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	OH	Br	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	OH	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	OH	Br	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	OH	Br	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	OH	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	OH	Br	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	OH	Br	S	Thymine	F	O-acyl
CF_3	OH	Br	S	Uracil	F	O-acyl
CF_3	OH	Br	S	Guanine	F	O-acyl
CF_3	OH	Br	S	Cytosine	F	O-acyl
CF_3	OH	Br	S	Adenine	F	O-acyl
CF_3	OH	Br	S	Hypoxanthine	F	O-acyl
CF_3	OH	Br	S	5-Fluorouracil	F	O-acyl
CF_3	OH	Br	S	8-Fluoroguanine	F	O-acyl
CF_3	OH	Br	S	5-Fluorocytosine	F	O-acyl
CF_3	OH	Br	S	8-Fluoroadenine	F	O-acyl
CF_3	OH	Br	S	2-Fluoroadenine	F	O-acyl
CF_3	OH	Br	S	2,8-Difluoroadenine	F	O-acyl
CF_3	OH	Br	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	OH	Br	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	OH	Br	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	OH	Br	S	2-Aminoadenine	F	O-acyl
CF_3	OH	Br	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	OH	Br	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	OH	Br	S	2-Aminohypoxanthine	F	O-acyl
CF_3	OH	Br	S	2-N-acetylguanine	F	O-acyl
CF_3	OH	Br	S	4-N-acetylcytosine	F	O-acyl
CF_3	OH	Br	S	6-N-acetyladenine	F	O-acyl
CF_3	OH	Br	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	OH	Br	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	OH	Br	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	OH	Br	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	OH	Br	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	OH	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	OH	Br	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	OH	Br	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl

Gilead Exhibit 2015
PGR2023-00046 - Page 00933

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	OH	Br	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	OH	Br	S	Thymine	Br	O-amino acid
CF_3	OH	Br	S	Uracil	Br	O-amino acid
CF_3	OH	Br	S	Guanine	Br	O-amino acid
CF_3	OH	Br	S	Cytosine	Br	O-amino acid
CF_3	OH	Br	S	Adenine	Br	O-amino acid
CF_3	OH	Br	S	Hypoxanthine	Br	O-amino acid
CF_3	OH	Br	S	5-Fluorouracil	Br	O-amino acid
CF_3	OH	Br	S	8-Fluoroguanine	Br	O-amino acid
CF_3	OH	Br	S	5-Fluorocytosine	Br	O-amino acid
CF_3	OH	Br	S	8-Fluoroadenine	Br	O-amino acid
CF_3	OH	Br	S	2-Fluoroadenine	Br	O-amino acid
CF_3	OH	Br	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	OH	Br	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	OH	Br	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	OH	Br	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	OH	Br	S	2-Aminoadenine	Br	O-amino acid
CF_3	OH	Br	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	Br	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	OH	Br	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	OH	Br	S	2-N-acetylguanine	Br	O-amino acid
CF_3	OH	Br	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	OH	Br	S	6-N-acetyladenine	Br	O-amino acid
CF_3	OH	Br	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	OH	Br	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	OH	Br	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	OH	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	OH	Br	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	OH	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	Br	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	OH	Br	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	OH	Br	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	OH	Br	S	Thymine	Br	O-acyl
CF_3	OH	Br	S	Uracil	Br	O-acyl
CF_3	OH	Br	S	Guanine	Br	O-acyl
CF_3	OH	Br	S	Cytosine	Br	O-acyl
CF_3	OH	Br	S	Adenine	Br	O-acyl
CF_3	OH	Br	S	Hypoxanthine	Br	O-acyl
CF_3	OH	Br	S	5-Fluorouracil	Br	O-acyl
CF_3	OH	Br	S	8-Fluoroguanine	Br	O-acyl
CF_3	OH	Br	S	5-Fluorocytosine	Br	O-acyl
CF_3	OH	Br	S	8-Fluoroadenine	Br	O-acyl
CF_3	OH	Br	S	2-Fluoroadenine	Br	O-acyl
CF_3	OH	Br	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	OH	Br	S	2-Fluorohypoxanthine	Br	O-acyl

Gilead Exhibit 2015
PGR2023-00046 - Page 00934

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Br	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	OH	Br	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	OH	Br	S	2-Aminoadenine	Br	O-acyl
CF_3	OH	Br	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	OH	Br	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	OH	Br	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	OH	Br	S	2-N-acetylguanine	Br	O-acyl
CF_3	OH	Br	S	4-N-acetylcytosine	Br	O-acyl
CF_3	OH	Br	S	6-N-acetyladenine	Br	O-acyl
CF_3	OH	Br	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	OH	Br	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	OH	Br	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	OH	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	OH	Br	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	OH	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	OH	Br	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	OH	Br	S	2-N-acetylamino-8-fluoroademine	Br	O-acyl
CF_3	OH	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	OH	Br	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	OH	Br	S	Thymine	Cl	O-amino acid
CF_3	OH	Br	S	Uracil	Cl	O-amino acid
CF_3	OH	Br	S	Guanine	Cl	O-amino acid
CF_3	OH	Br	S	Cytosine	Cl	O-amino acid
CF_3	OH	Br	S	Adenine	Cl	O-amino acid
CF_3	OH	Br	S	Hypoxanthine	Cl	O-amino acid
CF_3	OH	Br	S	5-Fluorouracil	Cl	O-amino acid
CF_3	OH	Br	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	OH	Br	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	OH	Br	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	OH	Br	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	OH	Br	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	OH	Br	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	Br	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	Br	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	OH	Br	S	2-Aminoadenine	Cl	O-amino acid
CF_3	OH	Br	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	Br	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	Br	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	OH	Br	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	OH	Br	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	OH	Br	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	OH	Br	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	OH	Br	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	OH	Br	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	OH	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	OH	Br	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	OH	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid

Gilead Exhibit 2015
PGR2023-00046 - Page 00935

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Br	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	OH	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	Br	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	OH	Br	S	Thymine	Cl	O-acyl
CF_3	OH	Br	S	Uracil	Cl	O-acyl
CF_3	OH	Br	S	Guanine	Cl	O-acyl
CF_3	OH	Br	S	Cytosine	Cl	O-acyl
CF_3	OH	Br	S	Adenine	Cl	O-acyl
CF_3	OH	Br	S	Hypoxanthine	Cl	O-acyl
CF_3	OH	Br	S	5-Fluorouracil	Cl	O-acyl
CF_3	OH	Br	S	8-Fluoroguanine	Cl	O-acyl
CF_3	OH	Br	S	5-Fluorocytosine	Cl	O-acyl
CF_3	OH	Br	S	8-Fluoroadenine	Cl	O-acyl
CF_3	OH	Br	S	2-Fluoroadenine	Cl	O-acyl
CF_3	OH	Br	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	OH	Br	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	OH	Br	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	OH	Br	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	OH	Br	S	2-Aminoadenine	Cl	O-acyl
CF_3	OH	Br	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	Br	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	OH	Br	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	OH	Br	S	2-N-acetylguanine	Cl	O-acyl
CF_3	OH	Br	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	OH	Br	S	6-N-acetyladenine	Cl	O-acyl
CF_3	OH	Br	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	OH	Br	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	OH	Br	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	OH	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	OH	Br	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	OH	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	Br	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	OH	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	OH	Br	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	OH	Br	S	Thymine	H	O-amino acid
CF_3	OH	Br	S	Uracil	H	O-amino acid
CF_3	OH	Br	S	Guanine	H	O-amino acid
CF_3	OH	Br	S	Cytosine	H	O-amino acid
CF_3	OH	Br	S	Adenine	H	O-amino acid
CF_3	OH	Br	S	Hypoxanthine	H	O-amino acid
CF_3	OH	Br	S	5-Fluorouracil	H	O-amino acid
CF_3	OH	Br	S	8-Fluoroguanine	H	O-amino acid
CF_3	OH	Br	S	5-Fluorocytosine	H	O-amino acid
CF_3	OH	Br	S	8-Fluoroadenine	H	O-amino acid
CF_3	OH	Br	S	2-Fluoroadenine	H	O-amino acid

Gilead Exhibit 2015
PGR2023-00046 - Page 00936

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Br	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	OH	Br	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	OH	Br	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	OH	Br	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	OH	Br	S	2-Aminoadenine	H	O-amino acid
CF_3	OH	Br	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	OH	Br	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	OH	Br	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	OH	Br	S	2-N-acetylguanine	H	O-amino acid
CF_3	OH	Br	S	4-N-acetylcytosine	H	O-amino acid
CF_3	OH	Br	S	6-N-acetyladenine	H	O-amino acid
CF_3	OH	Br	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	OH	Br	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	OH	Br	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	OH	Br	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	OH	Br	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	OH	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	OH	Br	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	OH	Br	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	OH	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	OH	Br	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	OH	Br	S	Thymine	H	O-acyl
CF_3	OH	Br	S	Uracil	H	O-acyl
CF_3	OH	Br	S	Guanine	H	O-acyl
CF_3	OH	Br	S	Cytosine	H	O-acyl
CF_3	OH	Br	S	Adenine	H	O-acyl
CF_3	OH	Br	S	Hypoxanthine	H	O-acyl
CF_3	OH	Br	S	5-Fluorouracil	H	O-acyl
CF_3	OH	Br	S	8-Fluoroguanine	H	O-acyl
CF_3	OH	Br	S	5-Fluorocytosine	H	O-acyl
CF_3	OH	Br	S	8-Fluoroadenine	H	O-acyl
CF_3	OH	Br	S	2-Fluoroadenine	H	O-acyl
CF_3	OH	Br	S	2,8-Difluoroadenine	H	O-acyl
CF_3	OH	Br	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	OH	Br	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	OH	Br	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	OH	Br	S	2-Aminoadenine	H	O-acyl
CF_3	OH	Br	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	OH	Br	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	OH	Br	S	2-Aminohypoxanthine	H	O-acyl
CF_3	OH	Br	S	2-N-acetylguanine	H	O-acyl
CF_3	OH	Br	S	4-N-acetylcytosine	H	O-acyl
CF_3	OH	Br	S	6-N-acetyladenine	H	O-acyl
CF_3	OH	Br	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	OH	Br	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	OH	Br	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	OH	Br	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl

Gilead Exhibit 2015
PGR2023-00046 - Page 00937

R^9	R^2	R^9	X	Base	R^{10}	R^5
CF_3	OH	Br	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	OH	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	OH	Br	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	OH	Br	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	OH	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	OH	Br	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	OH	Cl	S	Thymine	F	O-amino acid
CF_3	OH	Cl	S	Uracil	F	O-amino acid
CF_3	OH	Cl	S	Guanine	F	O-amino acid
CF_3	OH	Cl	S	Cytosine	F	O-amino acid
CF_3	OH	Cl	S	Adenine	F	O-amino acid
CF_3	OH	Cl	S	Hypoxanthine	F	O-amino acid
CF_3	OH	Cl	S	5-Fluorouracil	F	O-amino acid
CF_3	OH	Cl	S	8-Fluoroguanine	F	O-amino acid
CF_3	OH	Cl	S	5-Fluorocytosine	F	O-amino acid
CF_3	OH	Cl	S	8-Fluoroadenine	F	O-amino acid
CF_3	OH	Cl	S	2-Fluoroadenine	F	O-amino acid
CF_3	OH	Cl	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	OH	Cl	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	OH	Cl	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	OH	Cl	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	OH	Cl	S	2-Aminoadenine	F	O-amino acid
CF_3	OH	Cl	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	OH	Cl	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	OH	Cl	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	OH	Cl	S	2-N-acetylguanine	F	O-amino acid
CF_3	OH	Cl	S	4-N-acetylcytosine	F	O-amino acid
CF_3	OH	Cl	S	6-N-acetyladenine	F	O-amino acid
CF_3	OH	Cl	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	OH	Cl	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	OH	Cl	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	OH	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	OH	Cl	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	OH	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	OH	Cl	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	OH	Cl	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	OH	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	OH	Cl	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	OH	Cl	S	Thymine	F	O-acyl
CF_3	OH	Cl	S	Uracil	F	O-acyl
CF_3	OH	Cl	S	Guanine	F	O-acyl
CF_3	OH	Cl	S	Cytosine	F	O-acyl
CF_3	OH	Cl	S	Adenine	F	O-acyl
CF_3	OH	Cl	S	Hypoxanthine	F	O-acyl
CF_3	OH	Cl	S	5-Fluorouracil	F	O-acyl
CF_3	OH	Cl	S	8-Fluoroguanine	F	O-acyl
CF_3	OH	Cl	S	5-Fluorocytosine	F	O-acyl

Gilead Exhibit 2015
PGR2023-00046 - Page 00938

R^6	R^7	R^8	X	Base	R^{10}	R^3
CF_3	OH	Cl	S	8-Fluoroadenine	F	O-acyl
CF_3	OH	Cl	S	2-Fluoroadenine	F	O-acyl
CF_3	OH	Cl	S	2,8-Difluoroadenine	F	O-acyl
CF_3	OH	Cl	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	OH	Cl	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	OH	Cl	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	OH	Cl	S	2-Aminoadenine	F	O-acyl
CF_3	OH	Cl	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	OH	Cl	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	OH	Cl	S	2-Aminohypoxanthine	F	O-acyl
CF_3	OH	Cl	S	2-N-acetylguanine	F	O-acyl
CF_3	OH	Cl	S	4-N-acetylcytosine	F	O-acyl
CF_3	OH	Cl	S	6-N-acetyladenine	F	O-acyl
CF_3	OH	Cl	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	OH	Cl	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	OH	Cl	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	OH	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	OH	Cl	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	OH	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	OH	Cl	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	OH	Cl	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	OH	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	OH	Cl	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	OH	Cl	S	Thymine	Br	O-amino acid
CF_3	OH	Cl	S	Uracil	Br	O-amino acid
CF_3	OH	Cl	S	Guanine	Br	O-amino acid
CF_3	OH	Cl	S	Cytosine	Br	O-amino acid
CF_3	OH	Cl	S	Adenine	Br	O-amino acid
CF_3	OH	Cl	S	Hypoxanthine	Br	O-amino acid
CF_3	OH	Cl	S	5-Fluorouracil	Br	O-amino acid
CF_3	OH	Cl	S	8-Fluoroguanine	Br	O-amino acid
CF_3	OH	Cl	S	5-Fluorocytosine	Br	O-amino acid
CF_3	OH	Cl	S	8-Fluoroadenine	Br	O-amino acid
CF_3	OH	Cl	S	2-Fluoroadenine	Br	O-amino acid
CF_3	OH	Cl	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	OH	Cl	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	OH	Cl	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	OH	Cl	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	OH	Cl	S	2-Aminoadenine	Br	O-amino acid
CF_3	OH	Cl	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	Cl	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	OH	Cl	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	OH	Cl	S	2-N-acetylguanine	Br	O-amino acid
CF_3	OH	Cl	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	OH	Cl	S	6-N-acetyladenine	Br	O-amino acid
CF_3	OH	Cl	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	OH	Cl	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid

Gilead Exhibit 2015
PGR2023-00046 - Page 00939

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Cl	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	OH	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	OH	Cl	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	OH	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	Cl	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	OH	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	OH	Cl	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	OH	Cl	S	Thymine	Br	O-acyl
CF_3	OH	Cl	S	Uracil	Br	O-acyl
CF_3	OH	Cl	S	Guanine	Br	O-acyl
CF_3	OH	Cl	S	Cytosine	Br	O-acyl
CF_3	OH	Cl	S	Adenine	Br	O-acyl
CF_3	OH	Cl	S	Hypoxanthine	Br	O-acyl
CF_3	OH	Cl	S	5-Fluorouracil	Br	O-acyl
CF_3	OH	Cl	S	8-Fluoroguanine	Br	O-acyl
CF_3	OH	Cl	S	5-Fluorocytosine	Br	O-acyl
CF_3	OH	Cl	S	8-Fluoroadenine	Br	O-acyl
CF_3	OH	Cl	S	2-Fluoroadenine	Br	O-acyl
CF_3	OH	Cl	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	OH	Cl	S	2-Fluorohypoxanthine	Br	O-acyl
CF_3	OH	Cl	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	OH	Cl	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	OH	Cl	S	2-Aminoadenine	Br	O-acyl
CF_3	OH	Cl	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	OH	Cl	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	OH	Cl	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	OH	Cl	S	2-N-acetylguanine	Br	O-acyl
CF_3	OH	Cl	S	4-N-acetylcytosine	Br	O-acyl
CF_3	OH	Cl	S	6-N-acetyladenine	Br	O-acyl
CF_3	OH	Cl	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	OH	Cl	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	OH	Cl	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	OH	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	OH	Cl	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	OH	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	OH	Cl	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	OH	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	OH	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	OH	Cl	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	OH	Cl	S	Thymine	Cl	O-amino acid
CF_3	OH	Cl	S	Uracil	Cl	O-amino acid
CF_3	OH	Cl	S	Guanine	Cl	O-amino acid
CF_3	OH	Cl	S	Cytosine	Cl	O-amino acid
CF_3	OH	Cl	S	Adenine	Cl	O-amino acid
CF_3	OH	Cl	S	Hypoxanthine	Cl	O-amino acid
CF_3	OH	Cl	S	5-Fluorouracil	Cl	O-amino acid

Gilead Exhibit 2015
PGR2023-00046 - Page 00940

R^5	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Cl	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	OH	Cl	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	OH	Cl	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	OH	Cl	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	OH	Cl	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	OH	Cl	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	Cl	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	Cl	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	OH	Cl	S	2-Aminoadenine	Cl	O-amino acid
CF_3	OH	Cl	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	Cl	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	OH	Cl	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	OH	Cl	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	OH	Cl	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	OH	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	OH	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	OH	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	OH	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	OH	Cl	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	OH	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	Cl	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	OH	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	Cl	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	OH	Cl	S	Thymine	Cl	O-acyl
CF_3	OH	Cl	S	Uracil	Cl	O-acyl
CF_3	OH	Cl	S	Guanine	Cl	O-acyl
CF_3	OH	Cl	S	Cytosine	Cl	O-acyl
CF_3	OH	Cl	S	Adenine	Cl	O-acyl
CF_3	OH	Cl	S	Hypoxanthine	Cl	O-acyl
CF_3	OH	Cl	S	5-Fluorouracil	Cl	O-acyl
CF_3	OH	Cl	S	8-Fluoroguanine	Cl	O-acyl
CF_3	OH	Cl	S	5-Fluorocytosine	Cl	O-acyl
CF_3	OH	Cl	S	8-Fluoroadenine	Cl	O-acyl
CF_3	OH	Cl	S	2-Fluoroadenine	Cl	O-acyl
CF_3	OH	Cl	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	OH	Cl	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	OH	Cl	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	OH	Cl	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	OH	Cl	S	2-Aminoadenine	Cl	O-acyl
CF_3	OH	Cl	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	OH	Cl	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	OH	Cl	S	2-N-acetylguanine	Cl	O-acyl
CF_3	OH	Cl	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	OH	Cl	S	6-N-acetyladenine	Cl	O-acyl

Gilead Exhibit 2015
PGR2023-00046 - Page 00941

R^8	R^7	R^9	X	Base	R^{10}	R^5
CF_3	OH	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	OH	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	OH	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	OH	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	OH	Cl	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	OH	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	Cl	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	OH	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	OH	Cl	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	OH	Cl	S	Thymine	H	O-amino acid
CF_3	OH	Cl	S	Uracil	H	O-amino acid
CF_3	OH	Cl	S	Guanine	H	O-amino acid
CF_3	OH	Cl	S	Cytosine	H	O-amino acid
CF_3	OH	Cl	S	Adenine	H	O-amino acid
CF_3	OH	Cl	S	Hypoxanthine	H	O-amino acid
CF_3	OH	Cl	S	5-Fluorouracil	H	O-amino acid
CF_3	OH	Cl	S	8-Fluoroguanine	H	O-amino acid
CF_3	OH	Cl	S	5-Fluorocytosine	H	O-amino acid
CF_3	OH	Cl	S	8-Fluoroadenine	H	O-amino acid
CF_3	OH	Cl	S	2-Fluoroadenine	H	O-amino acid
CF_3	OH	Cl	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	OH	Cl	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	OH	Cl	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	OH	Cl	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	OH	Cl	S	2-Aminoadenine	H	O-amino acid
CF_3	OH	Cl	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	OH	Cl	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	OH	Cl	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	OH	Cl	S	2-N-acetylguanine	H	O-amino acid
CF_3	OH	Cl	S	4-N-acetylcytosine	H	O-amino acid
CF_3	OH	Cl	S	6-N-acetyladenine	H	O-amino acid
CF_3	OH	Cl	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	OH	Cl	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	OH	Cl	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	OH	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	OH	Cl	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	OH	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	OH	Cl	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	OH	Cl	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	OH	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	OH	Cl	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	OH	Cl	S	Thymine	H	O-acyl
CF_3	OH	Cl	S	Uracil	H	O-acyl
CF_3	OH	Cl	S	Guanine	H	O-acyl
CF_3	OH	Cl	S	Cytosine	H	O-acyl
CF_3	OH	Cl	S	Adenine	H	O-acyl

Gilead Exhibit 2015
PGR2023-00046 - Page 00942

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Cl	S	Hypoxanthine	H	O-acyl
CF_3	OH	Cl	S	5-Fluorouracil	H	O-acyl
CF_3	OH	Cl	S	8-Fluoroguanine	H	O-acyl
CF_3	OH	Cl	S	5-Fluorocytosine	H	O-acyl
CF_3	OH	Cl	S	8-Fluoroadenine	H	O-acyl
CF_3	OH	Cl	S	2-Fluoroadenine	H	O-acyl
CF_3	OH	Cl	S	2,8-Difluoroadenine	H	O-acyl
CF_3	OH	Cl	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	OH	Cl	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	OH	Cl	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	OH	Cl	S	2-Aminoadenine	H	O-acyl
CF_3	OH	Cl	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	OH	Cl	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	OH	Cl	S	2-Aminohypoxanthine	H	O-acyl
CF_3	OH	Cl	S	2-N-acetylguanine	H	O-acyl
CF_3	OH	Cl	S	4-N-acetylcytosine	H	O-acyl
CF_3	OH	Cl	S	6-N-acetyladenine	H	O-acyl
CF_3	OH	Cl	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	OH	Cl	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	OH	Cl	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	OH	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	OH	Cl	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	OH	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	OH	Cl	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	OH	Cl	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	OH	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	OH	Cl	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	OH	H	S	Thymine	F	O-amino acid
CF_3	OH	H	S	Uracil	F	O-amino acid
CF_3	OH	H	S	Guanine	F	O-amino acid
CF_3	OH	H	S	Cytosine	F	O-amino acid
CF_3	OH	H	S	Adenine	F	O-amino acid
CF_3	OH	H	S	Hypoxanthine	F	O-amino acid
CF_3	OH	H	S	5-Fluorouracil	F	O-amino acid
CF_3	OH	H	S	8-Fluoroguanine	F	O-amino acid
CF_3	OH	H	S	5-Fluorocytosine	F	O-amino acid
CF_3	OH	H	S	8-Fluoroadenine	F	O-amino acid
CF_3	OH	H	S	2-Fluoroadenine	F	O-amino acid
CF_3	OH	H	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	OH	H	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	OH	H	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	OH	H	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	OH	H	S	2-Aminoadenine	F	O-amino acid
CF_3	OH	H	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	OH	H	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	OH	H	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	OH	H	S	2-N-acetylguanine	F	O-amino acid

Gilead Exhibit 2015
PGR2023-00046 - Page 00943

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	H	S	4-N-acetylcytosine	F	O-amino acid
CF_3	OH	H	S	6-N-acetyladenine	F	O-amino acid
CF_3	OH	H	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	OH	H	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	OH	H	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	OH	H	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	OH	H	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	OH	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	OH	H	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	OH	H	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	OH	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	OH	H	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	OH	H	S	Thymine	F	O-acyl
CF_3	OH	H	S	Uracil	F	O-acyl
CF_3	OH	H	S	Guanine	F	O-acyl
CF_3	OH	H	S	Cytosine	F	O-acyl
CF_3	OH	H	S	Adenine	F	O-acyl
CF_3	OH	H	S	Hypoxanthine	F	O-acyl
CF_3	OH	H	S	5-Fluorouracil	F	O-acyl
CF_3	OH	H	S	8-Fluoroguanine	F	O-acyl
CF_3	OH	H	S	5-Fluorocytosine	F	O-acyl
CF_3	OH	H	S	8-Fluoroadenine	F	O-acyl
CF_3	OH	H	S	2-Fluoroadenine	F	O-acyl
CF_3	OH	H	S	2,8-Difluoroadenine	F	O-acyl
CF_3	OH	H	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	OH	H	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	OH	H	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	OH	H	S	2-Aminoadenine	F	O-acyl
CF_3	OH	H	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	OH	H	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	OH	H	S	2-Aminohypoxanthine	F	O-acyl
CF_3	OH	H	S	2-N-acetylguanine	F	O-acyl
CF_3	OH	H	S	4-N-acetylcytosine	F	O-acyl
CF_3	OH	H	S	6-N-acetyladenine	F	O-acyl
CF_3	OH	H	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	OH	H	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	OH	H	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	OH	H	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	OH	H	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	OH	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	OH	H	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	OH	H	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	OH	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	OH	H	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	OH	H	S	Thymine	Br	O-amino acid
CF_3	OH	H	S	Uracil	Br	O-amino acid
CF_3	OH	H	S	Guanine	Br	O-amino acid

Gilead Exhibit 2015
PGR2023-00046 - Page 00944

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	H	S	Cytosine	Br	O-amino acid
CF_3	OH	H	S	Adenine	Br	O-amino acid
CF_3	OH	H	S	Hypoxanthine	Br	O-amino acid
CF_3	OH	H	S	5-Fluorouracil	Br	O-amino acid
CF_3	OH	H	S	8-Fluoroguanine	Br	O-amino acid
CF_3	OH	H	S	5-Fluorocytosine	Br	O-amino acid
CF_3	OH	H	S	8-Fluoroadenine	Br	O-amino acid
CF_3	OH	H	S	2-Fluoroadenine	Br	O-amino acid
CF_3	OH	H	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	OH	H	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	OH	H	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	OH	H	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	OH	H	S	2-Aminoadenine	Br	O-amino acid
CF_3	OH	H	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	H	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	OH	H	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	OH	H	S	2-N-acetylguanine	Br	O-amino acid
CF_3	OH	H	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	OH	H	S	6-N-acetyladenine	Br	O-amino acid
CF_3	OH	H	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	OH	H	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	OH	H	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	OH	H	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	OH	H	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	OH	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	H	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	OH	H	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	OH	H	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	OH	H	S	Thymine	Br	O-acyl
CF_3	OH	H	S	Uracil	Br	O-acyl
CF_3	OH	H	S	Guanine	Br	O-acyl
CF_3	OH	H	S	Cytosine	Br	O-acyl
CF_3	OH	H	S	Adenine	Br	O-acyl
CF_3	OH	H	S	Hypoxanthine	Br	O-acyl
CF_3	OH	H	S	5-Fluorouracil	Br	O-acyl
CF_3	OH	H	S	8-Fluoroguanine	Br	O-acyl
CF_3	OH	H	S	5-Fluorocytosine	Br	O-acyl
CF_3	OH	H	S	8-Fluoroadenine	Br	O-acyl
CF_3	OH	H	S	2-Fluoroadenine	Br	O-acyl
CF_3	OH	H	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	OH	H	S	2-Fluorohypoxanthine	Br	O-acyl
CF_3	OH	H	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	OH	H	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	OH	H	S	2-Aminoadenine	Br	O-acyl
CF_3	OH	H	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	OH	H	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl

Gilead Exhibit 2015
PGR2023-00046 - Page 00945

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	H	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	OH	H	S	2-N-acetylguanine	Br	O-acyl
CF_3	OH	H	S	4-N-acetylcytosine	Br	O-acyl
CF_3	OH	H	S	6-N-acetyladenine	Br	O-acyl
CF_3	OH	H	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	OH	H	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	OH	H	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	OH	H	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	OH	H	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	OH	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	OH	H	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	OH	H	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	OH	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	OH	H	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	OH	H	S	Thymine	Cl	O-amino acid
CF_3	OH	H	S	Uracil	Cl	O-amino acid
CF_3	OH	H	S	Guanine	Cl	O-amino acid
CF_3	OH	H	S	Cytosine	Cl	O-amino acid
CF_3	OH	H	S	Adenine	Cl	O-amino acid
CF_3	OH	H	S	Hypoxanthine	Cl	O-amino acid
CF_3	OH	H	S	5-Fluorouracil	Cl	O-amino acid
CF_3	OH	H	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	OH	H	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	OH	H	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	OH	H	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	OH	H	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	OH	H	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	H	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	H	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	OH	H	S	2-Aminoadenine	Cl	O-amino acid
CF_3	OH	H	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	H	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	H	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	OH	H	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	OH	H	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	OH	H	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	OH	H	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	OH	H	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	OH	H	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	OH	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	OH	H	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	OH	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	H	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	OH	H	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	H	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	OH	H	S	Thymine	Cl	O-acyl

Gilead Exhibit 2015
PGR2023-00046 - Page 00946

R^5	R^7	R^8	X	Base	R^{16}	R^9
CF_3	OH	H	S	Uracil	Cl	O-acyl
CF_3	OH	H	S	Guanine	Cl	O-acyl
CF_3	OH	H	S	Cytosine	Cl	O-acyl
CF_3	OH	H	S	Adenine	Cl	O-acyl
CF_3	OH	H	S	Hypoxanthine	Cl	O-acyl
CF_3	OH	H	S	5-Fluorouracil	Cl	O-acyl
CF_3	OH	H	S	8-Fluoroguanine	Cl	O-acyl
CF_3	OH	H	S	5-Fluorocytosine	Cl	O-acyl
CF_3	OH	H	S	8-Fluoroadenine	Cl	O-acyl
CF_3	OH	H	S	2-Fluoroadenine	Cl	O-acyl
CF_3	OH	H	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	OH	H	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	OH	H	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	OH	H	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	OH	H	S	2-Aminoadenine	Cl	O-acyl
CF_3	OH	H	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	H	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	OH	H	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	OH	H	S	2-N-acetylguanine	Cl	O-acyl
CF_3	OH	H	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	OH	H	S	6-N-acetyladenine	Cl	O-acyl
CF_3	OH	H	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	OH	H	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	OH	H	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	OH	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	OH	H	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	OH	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	H	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	OH	H	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	OH	H	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	OH	H	S	Thymine	H	O-amino acid
CF_3	OH	H	S	Uracil	H	O-amino acid
CF_3	OH	H	S	Guanine	H	O-amino acid
CF_3	OH	H	S	Cytosine	H	O-amino acid
CF_3	OH	H	S	Adenine	H	O-amino acid
CF_3	OH	H	S	Hypoxanthine	H	O-amino acid
CF_3	OH	H	S	5-Fluorouracil	H	O-amino acid
CF_3	OH	H	S	8-Fluoroguanine	H	O-amino acid
CF_3	OH	H	S	5-Fluorocytosine	H	O-amino acid
CF_3	OH	H	S	8-Fluoroadenine	H	O-amino acid
CF_3	OH	H	S	2-Fluoroadenine	H	O-amino acid
CF_3	OH	H	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	OH	H	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	OH	H	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	OH	H	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	OH	H	S	2-Aminoadenine	H	O-amino acid

Gilead Exhibit 2015
PGR2023-00046 - Page 00947

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	H	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	OH	H	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	OH	H	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	OH	H	S	2-N-acetylguanine	H	O-amino acid
CF_3	OH	H	S	4-N-acetylcytosine	H	O-amino acid
CF_3	OH	H	S	6-N-acetyladenine	H	O-amino acid
CF_3	OH	H	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	OH	H	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	OH	H	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	OH	H	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	OH	H	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	OH	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	OH	H	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	OH	H	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	OH	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	OH	H	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	OH	H	S	Thymine	H	O-acyl
CF_3	OH	H	S	Uracil	H	O-acyl
CF_3	OH	H	S	Guanine	H	O-acyl
CF_3	OH	H	S	Cytosine	H	O-acyl
CF_3	OH	H	S	Adenine	H	O-acyl
CF_3	OH	H	S	Hypoxanthine	H	O-acyl
CF_3	OH	H	S	5-Fluoreuracil	H	O-acyl
CF_3	OH	H	S	8-Fluoroguanine	H	O-acyl
CF_3	OH	H	S	5-Fluorocytosine	H	O-acyl
CF_3	OH	H	S	8-Fluoroadenine	H	O-acyl
CF_3	OH	H	S	2-Fluoroadenine	H	O-acyl
CF_3	OH	H	S	2,8-Difluoroadenine	H	O-acyl
CF_3	OH	H	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	OH	H	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	OH	H	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	OH	H	S	2-Aminoadenine	H	O-acyl
CF_3	OH	H	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	OH	H	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	OH	H	S	2-Aminohypoxanthine	H	O-acyl
CF_3	OH	H	S	2-N-acetylguanine	H	O-acyl
CF_3	OH	H	S	4-N-acetylcytosine	H	O-acyl
CF_3	OH	H	S	6-N-acetyladenine	H	O-acyl
CF_3	OH	H	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	OH	H	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	OH	H	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	OH	H	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	OH	H	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	OH	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	OH	H	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	OH	H	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	OH	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl

Gilead Exhibit 2015
PGR2023-00046 - Page 00948

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	H	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	H	F	S	Thymine	F	O-amino acid
CF_3	H	F	S	Uracil	F	O-amino acid
CF_3	H	F	S	Guanine	F	O-amino acid
CF_3	H	F	S	Cytosine	F	O-amino acid
CF_3	H	F	S	Adenine	F	O-amino acid
CF_3	H	F	S	Hypoxanthine	F	O-amino acid
CF_3	H	F	S	5-Fluorouracil	F	O-amino acid
CF_3	H	F	S	8-Fluoroguanine	F	O-amino acid
CF_3	H	F	S	5-Fluorocytosine	F	O-amino acid
CF_3	H	F	S	8-Fluoroadenine	F	O-amino acid
CF_3	H	F	S	2-Fluoroadenine	F	O-amino acid
CF_3	H	F	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	H	F	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	H	F	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	H	F	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	H	F	S	2-Aminoadenine	F	O-amino acid
CF_3	H	F	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	H	F	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	F	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	H	F	S	2-N-acetylguanine	F	O-amino acid
CF_3	H	F	S	4-N-acetylcytosine	F	O-amino acid
CF_3	H	F	S	6-N-acetyladenine	F	O-amino acid
CF_3	H	F	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	H	F	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	H	F	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	H	F	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	H	F	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	H	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	H	F	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	H	F	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	H	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	F	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	H	F	S	Thymine	F	O-acyl
CF_3	H	F	S	Uracil	F	O-acyl
CF_3	H	F	S	Guanine	F	O-acyl
CF_3	H	F	S	Cytosine	F	O-acyl
CF_3	H	F	S	Adenine	F	O-acyl
CF_3	H	F	S	Hypoxanthine	F	O-acyl
CF_3	H	F	S	5-Fluorouracil	F	O-acyl
CF_3	H	F	S	8-Fluoroguanine	F	O-acyl
CF_3	H	F	S	5-Fluorocytosine	F	O-acyl
CF_3	H	F	S	8-Fluoroadenine	F	O-acyl
CF_3	H	F	S	2-Fluoroadenine	F	O-acyl
CF_3	H	F	S	2,8-Difluoroadenine	F	O-acyl
CF_3	H	F	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	H	F	S	8-Fluorohypoxanthine	F	O-acyl

Gilead Exhibit 2015
PGR2023-00046 - Page 00949

R^6	R^7	R^9	X	Base	R^{10}	R^9
CF_3	H	F	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	H	F	S	2-Aminoadenine	F	O-acyl
CF_3	H	F	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	H	F	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	F	S	2-Aminohypoxanthine	F	O-acyl
CF_3	H	F	S	2-N-acetylguanine	F	O-acyl
CF_3	H	F	S	4-N-acetylcytosine	F	O-acyl
CF_3	H	F	S	6-N-acetyladenine	F	O-acyl
CF_3	H	F	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	H	F	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	H	F	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	H	F	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	H	F	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	H	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	H	F	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	H	F	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	H	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	F	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	H	F	S	Thymine	Br	O-amino acid
CF_3	H	F	S	Uracil	Br	O-amino acid
CF_3	H	F	S	Guanine	Br	O-amino acid
CF_3	H	F	S	Cytosine	Br	O-amino acid
CF_3	H	F	S	Adenine	Br	O-amino acid
CF_3	H	F	S	Hypoxanthine	Br	O-amino acid
CF_3	H	F	S	5-Fluorouracil	Br	O-amino acid
CF_3	H	F	S	8-Fluoroguanine	Br	O-amino acid
CF_3	H	F	S	5-Fluorocytosine	Br	O-amino acid
CF_3	H	F	S	8-Fluoroadenine	Br	O-amino acid
CF_3	H	F	S	2-Fluoroadenine	Br	O-amino acid
CF_3	H	F	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	H	F	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	F	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	F	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	H	F	S	2-Aminoadenine	Br	O-amino acid
CF_3	H	F	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	F	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	F	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	H	F	S	2-N-acetylguanine	Br	O-amino acid
CF_3	H	F	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	H	F	S	6-N-acetyladenine	Br	O-amino acid
CF_3	H	F	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	H	F	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	H	F	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	H	F	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	H	F	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	H	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	F	S	2-N-acetylaminoadenine	Br	O-amino acid

Gilead Exhibit 2015
PGR2023-00046 - Page 00950

R^6	R^7	R^8	X	Base	R^{10}	R^5
CF_3	H	F	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	H	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	F	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	H	F	S	Thymine	Br	O-acyl
CF_3	H	F	S	Uracil	Br	O-acyl
CF_3	H	F	S	Guanine	Br	O-acyl
CF_3	H	F	S	Cytosine	Br	O-acyl
CF_3	H	F	S	Adenine	Br	O-acyl
CF_3	H	F	S	Hypoxanthine	Br	O-acyl
CF_3	H	F	S	5-Fluorouracil	Br	O-acyl
CF_3	H	F	S	8-Fluoroguanine	Br	O-acyl
CF_3	H	F	S	5-Fluorocytosine	Br	O-acyl
CF_3	H	F	S	8-Fluoroadenine	Br	O-acyl
CF_3	H	F	S	2-Fluoroadenine	Br	O-acyl
CF_3	H	F	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	H	F	S	2-Fluorohypoxanthine	Br	O-acyl
CF_3	H	F	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	H	F	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	H	F	S	2-Aminoadenine	Br	O-acyl
CF_3	H	F	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	H	F	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	F	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	H	F	S	2-N-acetylguanine	Br	O-acyl
CF_3	H	F	S	4-N-acetylcytosine	Br	O-acyl
CF_3	H	F	S	6-N-acetyladenine	Br	O-acyl
CF_3	H	F	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	H	F	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	H	F	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	H	F	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	H	F	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	H	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	H	F	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	H	F	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	H	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	F	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	H	F	S	Thymine	Cl	O-amino acid
CF_3	H	F	S	Uracil	Cl	O-amino acid
CF_3	H	F	S	Guanine	Cl	O-amino acid
CF_3	H	F	S	Cytosine	Cl	O-amino acid
CF_3	H	F	S	Adenine	Cl	O-amino acid
CF_3	H	F	S	Hypoxanthine	Cl	O-amino acid
CF_3	H	F	S	5-Fluorouracil	Cl	O-amino acid
CF_3	H	F	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	H	F	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	H	F	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	H	F	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	H	F	S	2,8-Difluoroadenine	Cl	O-amino acid

Gilead Exhibit 2015
PGR2023-00046 - Page 00951

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	F	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	F	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	F	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	H	F	S	2-Aminoadenine	Cl	O-amino acid
CF_3	H	F	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	F	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	F	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	H	F	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	H	F	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	H	F	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	H	F	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	H	F	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	H	F	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	H	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	H	F	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	H	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	F	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	H	F	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	F	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	H	F	S	Thymine	Cl	O-acyl
CF_3	H	F	S	Uracil	Cl	O-acyl
CF_3	H	F	S	Guanine	Cl	O-acyl
CF_3	H	F	S	Cytosine	Cl	O-acyl
CF_3	H	F	S	Adenine	Cl	O-acyl
CF_3	H	F	S	Hypoxanthine	Cl	O-acyl
CF_3	H	F	S	5-Fluorouracil	Cl	O-acyl
CF_3	H	F	S	8-Fluoroguanine	Cl	O-acyl
CF_3	H	F	S	5-Fluorocytosine	Cl	O-acyl
CF_3	H	F	S	8-Fluoroadenine	Cl	O-acyl
CF_3	H	F	S	2-Fluoroadenine	Cl	O-acyl
CF_3	H	F	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	H	F	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	F	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	F	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	H	F	S	2-Aminoadenine	Cl	O-acyl
CF_3	H	F	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	F	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	F	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	H	F	S	2-N-acetylguanine	Cl	O-acyl
CF_3	H	F	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	H	F	S	6-N-acetyladenine	Cl	O-acyl
CF_3	H	F	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	H	F	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	H	F	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	H	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	H	F	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl

Gilead Exhibit 2015
PGR2023-00046 - Page 00952

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	F	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	H	F	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	H	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	F	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	H	F	S	Thymine	H	O-amino acid
CF_3	H	F	S	Uracil	H	O-amino acid
CF_3	H	F	S	Guanine	H	O-amino acid
CF_3	H	F	S	Cytosine	H	O-amino acid
CF_3	H	F	S	Adenine	H	O-amino acid
CF_3	H	F	S	Hypoxanthine	H	O-amino acid
CF_3	H	F	S	5-Fluorouracil	H	O-amino acid
CF_3	H	F	S	8-Fluoroguanine	H	O-amino acid
CF_3	H	F	S	5-Fluorocytosine	H	O-amino acid
CF_3	H	F	S	8-Fluoroadenine	H	O-amino acid
CF_3	H	F	S	2-Fluoroadenine	H	O-amino acid
CF_3	H	F	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	H	F	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	H	F	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	H	F	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	H	F	S	2-Aminoadenine	H	O-amino acid
CF_3	H	F	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	H	F	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	F	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	H	F	S	2-N-acetylguanine	H	O-amino acid
CF_3	H	F	S	4-N-acetylcytosine	H	O-amino acid
CF_3	H	F	S	6-N-acetyladenine	H	O-amino acid
CF_3	H	F	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	H	F	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	H	F	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	H	F	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	H	F	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	H	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	H	F	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	H	F	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	H	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	F	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	H	F	S	Thymine	H	O-acyl
CF_3	H	F	S	Uracil	H	O-acyl
CF_3	H	F	S	Guanine	H	O-acyl
CF_3	H	F	S	Cytosine	H	O-acyl
CF_3	H	F	S	Adenine	H	O-acyl
CF_3	H	F	S	Hypoxanthine	H	O-acyl
CF_3	H	F	S	5-Fluorouracil	H	O-acyl
CF_3	H	F	S	8-Fluoroguanine	H	O-acyl
CF_3	H	F	S	5-Fluorocytosine	H	O-acyl
CF_3	H	F	S	8-Fluoroadenine	H	O-acyl

Gilead Exhibit 2015
PGR2023-00046 - Page 00953

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	F	S	2-Fluoroadenine	H	O-acyl
CF_3	H	F	S	2,8-Difluoroadenine	H	O-acyl
CF_3	H	F	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	H	F	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	H	F	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	H	F	S	2-Aminoadenine	H	O-acyl
CF_3	H	F	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	H	F	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	F	S	2-Aminohypoxanthine	H	O-acyl
CF_3	H	F	S	2-N-acetylguanine	H	O-acyl
CF_3	H	F	S	4-N-acetylcytosine	H	O-acyl
CF_3	H	F	S	6-N-acetyladenine	H	O-acyl
CF_3	H	F	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	H	F	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	H	F	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	H	F	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	H	F	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	H	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	H	F	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	H	F	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	H	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	F	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	H	Br	S	Thymine	F	O-amino acid
CF_3	H	Br	S	Uracil	F	O-amino acid
CF_3	H	Br	S	Guanine	F	O-amino acid
CF_3	H	Br	S	Cytosine	F	O-amino acid
CF_3	H	Br	S	Adenine	F	O-amino acid
CF_3	H	Br	S	Hypoxanthine	F	O-amino acid
CF_3	H	Br	S	5-Fluorouracil	F	O-amino acid
CF_3	H	Br	S	8-Fluoroguanine	F	O-amino acid
CF_3	H	Br	S	5-Fluorocytosine	F	O-amino acid
CF_3	H	Br	S	8-Fluoroadenine	F	O-amino acid
CF_3	H	Br	S	2-Fluoroadenine	F	O-amino acid
CF_3	H	Br	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	H	Br	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	H	Br	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	H	Br	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	H	Br	S	2-Aminoadenine	F	O-amino acid
CF_3	H	Br	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	H	Br	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	Br	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	H	Br	S	2-N-acetylguanine	F	O-amino acid
CF_3	H	Br	S	4-N-acetylcytosine	F	O-amino acid
CF_3	H	Br	S	6-N-acetyladenine	F	O-amino acid
CF_3	H	Br	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	H	Br	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	H	Br	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid

Gilead Exhibit 2015
PGR2023-00046 - Page 00954

R^6	R^7	R^8	X	Base	R^{10}	R^5
CF_3	H	Br	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	H	Br	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	H	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	H	Br	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	H	Br	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	H	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	Br	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	H	Br	S	Thymine	F	O-acyl
CF_3	H	Br	S	Uracil	F	O-acyl
CF_3	H	Br	S	Guanine	F	O-acyl
CF_3	H	Br	S	Cytosine	F	O-acyl
CF_3	H	Br	S	Adenine	F	O-acyl
CF_3	H	Br	S	Hypoxanthine	F	O-acyl
CF_3	H	Br	S	5-Fluorouracil	F	O-acyl
CF_3	H	Br	S	8-Fluoroguanine	F	O-acyl
CF_3	H	Br	S	5-Fluorocytosine	F	O-acyl
CF_3	H	Br	S	8-Fluoroadenine	F	O-acyl
CF_3	H	Br	S	2-Fluoroadenine	F	O-acyl
CF_3	H	Br	S	2,8-Difluoroadenine	F	O-acyl
CF_3	H	Br	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	H	Br	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	H	Br	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	H	Br	S	2-Aminoadenine	F	O-acyl
CF_3	H	Br	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	H	Br	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	Br	S	2-Aminohypoxanthine	F	O-acyl
CF_3	H	Br	S	2-N-acetylguanine	F	O-acyl
CF_3	H	Br	S	4-N-acetylcytosine	F	O-acyl
CF_3	H	Br	S	6-N-acetyladenine	F	O-acyl
CF_3	H	Br	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	H	Br	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	H	Br	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	H	Br	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	H	Br	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	H	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	H	Br	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	H	Br	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	H	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	Br	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	H	Br	S	Thymine	Br	O-amino acid
CF_3	H	Br	S	Uracil	Br	O-amino acid
CF_3	H	Br	S	Guanine	Br	O-amino acid
CF_3	H	Br	S	Cytosine	Br	O-amino acid
CF_3	H	Br	S	Adenine	Br	O-amino acid
CF_3	H	Br	S	Hypoxanthine	Br	O-amino acid
CF_3	H	Br	S	5-Fluorouracil	Br	O-amino acid
CF_3	H	Br	S	8-Fluoroguanine	Br	O-amino acid

Gilead Exhibit 2015
PGR2023-00046 - Page 00955

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Br	S	5-Fluorocytosine	Br	O-amino acid
CF_3	H	Br	S	8-Fluoroadenine	Br	O-amino acid
CF_3	H	Br	S	2-Fluoroadenine	Br	O-amino acid
CF_3	H	Br	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	H	Br	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	Br	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	Br	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	H	Br	S	2-Aminoadenine	Br	O-amino acid
CF_3	H	Br	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	Br	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	Br	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	H	Br	S	2-N-acetylguanine	Br	O-amino acid
CF_3	H	Br	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	H	Br	S	6-N-acetyladenine	Br	O-amino acid
CF_3	H	Br	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	H	Br	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	H	Br	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	H	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	H	Br	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	H	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	Br	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	H	Br	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	H	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	Br	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	H	Br	S	Thymine	Br	O-acyl
CF_3	H	Br	S	Uracil	Br	O-acyl
CF_3	H	Br	S	Guanine	Br	O-acyl
CF_3	H	Br	S	Cytosine	Br	O-acyl
CF_3	H	Br	S	Adenine	Br	O-acyl
CF_3	H	Br	S	Hypoxanthine	Br	O-acyl
CF_3	H	Br	S	5-Fluorouracil	Br	O-acyl
CF_3	H	Br	S	8-Fluoroguanine	Br	O-acyl
CF_3	H	Br	S	5-Fluorocytosine	Br	O-acyl
CF_3	H	Br	S	8-Fluoroadenine	Br	O-acyl
CF_3	H	Br	S	2-Fluoroadenine	Br	O-acyl
CF_3	H	Br	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	H	Br	S	2-Fluorohypoxanthine	Br	O-acyl
CF_3	H	Br	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	H	Br	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	H	Br	S	2-Aminoadenine	Br	O-acyl
CF_3	H	Br	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	H	Br	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	Br	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	H	Br	S	2-N-acetylguanine	Br	O-acyl
CF_3	H	Br	S	4-N-acetylcytosine	Br	O-acyl
CF_3	H	Br	S	6-N-acetyladenine	Br	O-acyl
CF_3	H	Br	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl

Gilead Exhibit 2015
PGR2023-00046 - Page 00956

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Br	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	H	Br	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	H	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	H	Br	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	H	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	H	Br	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	H	Br	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	H	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	Br	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	H	Br	S	Thymine	Cl	O-amino acid
CF_3	H	Br	S	Uracil	Cl	O-amino acid
CF_3	H	Br	S	Guanine	Cl	O-amino acid
CF_3	H	Br	S	Cytosine	Cl	O-amino acid
CF_3	H	Br	S	Adenine	Cl	O-amino acid
CF_3	H	Br	S	Hypoxanthine	Cl	O-amino acid
CF_3	H	Br	S	5-Fluorouracil	Cl	O-amino acid
CF_3	H	Br	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	H	Br	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	H	Br	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	H	Br	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	H	Br	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	H	Br	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	Br	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	Br	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	H	Br	S	2-Aminoadenine	Cl	O-amino acid
CF_3	H	Br	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	Br	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	Br	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	H	Br	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	H	Br	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	H	Br	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	H	Br	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	H	Br	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	H	Br	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	H	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	H	Br	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	H	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	Br	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	H	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	Br	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	H	Br	S	Thymine	Cl	O-acyl
CF_3	H	Br	S	Uracil	Cl	O-acyl
CF_3	H	Br	S	Guanine	Cl	O-acyl
CF_3	H	Br	S	Cytosine	Cl	O-acyl
CF_3	H	Br	S	Adenine	Cl	O-acyl
CF_3	H	Br	S	Hypoxanthine	Cl	O-acyl

Gilead Exhibit 2015
PGR2023-00046 - Page 00957

R^4	R^5	R^8	X	Base	R^{10}	R^9
CF_3	H	Br	S	5-Fluorouracil	Cl	O-acyl
CF_3	H	Br	S	8-Fluoroguanine	Cl	O-acyl
CF_3	H	Br	S	5-Fluorocytosine	Cl	O-acyl
CF_3	H	Br	S	8-Fluoroadenine	Cl	O-acyl
CF_3	H	Br	S	2-Fluoroadenine	Cl	O-acyl
CF_3	H	Br	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	H	Br	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	Br	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	Br	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	H	Br	S	2-Aminoadenine	Cl	O-acyl
CF_3	H	Br	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	Br	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	Br	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	H	Br	S	2-N-acetylguanine	Cl	O-acyl
CF_3	H	Br	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	H	Br	S	6-N-acetyladenine	Cl	O-acyl
CF_3	H	Br	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	H	Br	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	H	Br	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	H	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	H	Br	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	H	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	Br	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	H	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	H	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	Br	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	H	Br	S	Thymine	H	O-amino acid
CF_3	H	Br	S	Uracil	H	O-amino acid
CF_3	H	Br	S	Guanine	H	O-amino acid
CF_3	H	Br	S	Cytosine	H	O-amino acid
CF_3	H	Br	S	Adenine	H	O-amino acid
CF_3	H	Br	S	Hypoxanthine	H	O-amino acid
CF_3	H	Br	S	5-Fluorouracil	H	O-amino acid
CF_3	H	Br	S	8-Fluoroguanine	H	O-amino acid
CF_3	H	Br	S	5-Fluorocytosine	H	O-amino acid
CF_3	H	Br	S	8-Fluoroadenine	H	O-amino acid
CF_3	H	Br	S	2-Fluoroadenine	H	O-amino acid
CF_3	H	Br	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	H	Br	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	H	Br	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	H	Br	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	H	Br	S	2-Aminoadenine	H	O-amino acid
CF_3	H	Br	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	H	Br	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	Br	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	H	Br	S	2-N-acetylguanine	H	O-amino acid
CF_3	H	Br	S	4-N-acetylcytosine	H	O-amino acid

Gilead Exhibit 2015
PGR2023-00046 - Page 00958

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Br	S	6-N-acetyladenine	H	O-amino acid
CF_3	H	Br	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	H	Br	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	H	Br	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	H	Br	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	H	Br	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	H	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	H	Br	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	H	Br	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	H	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	Br	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	H	Br	S	Thymine	H	O-acyl
CF_3	H	Br	S	Uracil	H	O-acyl
CF_3	H	Br	S	Guanine	H	O-acyl
CF_3	H	Br	S	Cytosine	H	O-acyl
CF_3	H	Br	S	Adenine	H	O-acyl
CF_3	H	Br	S	Hypoxanthine	H	O-acyl
CF_3	H	Br	S	5-Fluorouracil	H	O-acyl
CF_3	H	Br	S	8-Fluoroguanine	H	O-acyl
CF_3	H	Br	S	5-Fluorocytosine	H	O-acyl
CF_3	H	Br	S	8-Fluoroadenine	H	O-acyl
CF_3	H	Br	S	2-Fluoroadenine	H	O-acyl
CF_3	H	Br	S	2,8-Difluoroadenine	H	O-acyl
CF_3	H	Br	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	H	Br	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	H	Br	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	H	Br	S	2-Aminoadenine	H	O-acyl
CF_3	H	Br	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	H	Br	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	Br	S	2-Aminohypoxanthine	H	O-acyl
CF_3	H	Br	S	2-N-acetylguanine	H	O-acyl
CF_3	H	Br	S	4-N-acetylcytosine	H	O-acyl
CF_3	H	Br	S	6-N-acetyladenine	H	O-acyl
CF_3	H	Br	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	H	Br	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	H	Br	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	H	Br	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	H	Br	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	H	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	H	Br	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	H	Br	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	H	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	Br	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	H	Cl	S	Thymine	F	O-amino acid
CF_3	H	Cl	S	Uracil	F	O-amino acid
CF_3	H	Cl	S	Guanine	F	O-amino acid
CF_3	H	Cl	S	Cytosine	F	O-amino acid

Gilead Exhibit 2015
PGR2023-00046 - Page 00959

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Cl	S	Adenine	F	O-amino acid
CF_3	H	Cl	S	Hypoxanthine	F	O-amino acid
CF_3	H	Cl	S	5-Fluorouracil	F	O-amino acid
CF_3	H	Cl	S	8-Fluoroguanine	F	O-amino acid
CF_3	H	Cl	S	5-Fluorocytosine	F	O-amino acid
CF_3	H	Cl	S	8-Fluoroadenine	F	O-amino acid
CF_3	H	Cl	S	2-Fluoroadenine	F	O-amino acid
CF_3	H	Cl	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	H	Cl	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	H	Cl	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	H	Cl	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	H	Cl	S	2-Aminoadenine	F	O-amino acid
CF_3	H	Cl	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	H	Cl	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	Cl	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	H	Cl	S	2-N-acetylguanine	F	O-amino acid
CF_3	H	Cl	S	4-N-acetylcytosine	F	O-amino acid
CF_3	H	Cl	S	6-N-acetyladenine	F	O-amino acid
CF_3	H	Cl	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	H	Cl	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	H	Cl	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	H	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	H	Cl	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	H	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	H	Cl	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	H	Cl	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	H	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	Cl	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	H	Cl	S	Thymine	F	O-acyl
CF_3	H	Cl	S	Uracil	F	O-acyl
CF_3	H	Cl	S	Guanine	F	O-acyl
CF_3	H	Cl	S	Cytosine	F	O-acyl
CF_3	H	Cl	S	Adenine	F	O-acyl
CF_3	H	Cl	S	Hypoxanthine	F	O-acyl
CF_3	H	Cl	S	5-Fluorouracil	F	O-acyl
CF_3	H	Cl	S	8-Fluoroguanine	F	O-acyl
CF_3	H	Cl	S	5-Fluorocytosine	F	O-acyl
CF_3	H	Cl	S	8-Fluoroadenine	F	O-acyl
CF_3	H	Cl	S	2-Fluoroadenine	F	O-acyl
CF_3	H	Cl	S	2,8-Difluoroadenine	F	O-acyl
CF_3	H	Cl	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	H	Cl	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	H	Cl	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	H	Cl	S	2-Aminoadenine	F	O-acyl
CF_3	H	Cl	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	H	Cl	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	Cl	S	2-Aminohypoxanthine	F	O-acyl

Gilead Exhibit 2015
PGR2023-00046 - Page 00960

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Cl	S	2-N-acetylguanine	F	O-acyl
CF_3	H	Cl	S	4-N-acetylcytosine	F	O-acyl
CF_3	H	Cl	S	6-N-acetyladenine	F	O-acyl
CF_3	H	Cl	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	H	Cl	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	H	Cl	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	H	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	H	Cl	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	H	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	H	Cl	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	H	Cl	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	H	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	Cl	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	H	Cl	S	Thymine	Br	O-amino acid
CF_3	H	Cl	S	Uracil	Br	O-amino acid
CF_3	H	Cl	S	Guanine	Br	O-amino acid
CF_3	H	Cl	S	Cytosine	Br	O-amino acid
CF_3	H	Cl	S	Adenine	Br	O-amino acid
CF_3	H	Cl	S	Hypoxanthine	Br	O-amino acid
CF_3	H	Cl	S	5-Fluorouracil	Br	O-amino acid
CF_3	H	Cl	S	8-Fluoroguanine	Br	O-amino acid
CF_3	H	Cl	S	5-Fluorocytosine	Br	O-amino acid
CF_3	H	Cl	S	8-Fluoroadenine	Br	O-amino acid
CF_3	H	Cl	S	2-Fluoroadenine	Br	O-amino acid
CF_3	H	Cl	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	H	Cl	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	Cl	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	Cl	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	H	Cl	S	2-Aminoadenine	Br	O-amino acid
CF_3	H	Cl	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	Cl	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	Cl	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	H	Cl	S	2-N-acetylguanine	Br	O-amino acid
CF_3	H	Cl	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	H	Cl	S	6-N-acetyladenine	Br	O-amino acid
CF_3	H	Cl	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	H	Cl	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	H	Cl	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	H	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	H	Cl	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	H	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	Cl	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	H	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	H	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	Cl	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	H	Cl	S	Thymine	Br	O-acyl
CF_3	H	Cl	S	Uracil	Br	O-acyl

Gilead Exhibit 2015
PGR2023-00046 - Page 00961

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Cl	S	Guanine	Br	O-acyl
CF_3	H	Cl	S	Cytosine	Br	O-acyl
CF_3	H	Cl	S	Adenine	Br	O-acyl
CF_3	H	Cl	S	Hypoxanthine	Br	O-acyl
CF_3	H	Cl	S	5-Fluorouracil	Br	O-acyl
CF_3	H	Cl	S	8-Fluoroguanine	Br	O-acyl
CF_3	H	Cl	S	5-Fluorocytosine	Br	O-acyl
CF_3	H	Cl	S	8-Fluoroadenine	Br	O-acyl
CF_3	H	Cl	S	2-Fluoroadenine	Br	O-acyl
CF_3	H	Cl	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	H	Cl	S	2-Fluorohypoxanthine	Br	O-acyl
CF_3	H	Cl	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	H	Cl	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	H	Cl	S	2-Aminoadenine	Br	O-acyl
CF_3	H	Cl	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	H	Cl	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	Cl	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	H	Cl	S	2-N-acetylguanine	Br	O-acyl
CF_3	H	Cl	S	4-N-acetylcytosine	Br	O-acyl
CF_3	H	Cl	S	6-N-acetyladenine	Br	O-acyl
CF_3	H	Cl	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	H	Cl	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	H	Cl	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	H	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	H	Cl	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	H	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	H	Cl	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	H	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	H	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	Cl	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	H	Cl	S	Thymine	Cl	O-amino acid
CF_3	H	Cl	S	Uracil	Cl	O-amino acid
CF_3	H	Cl	S	Guanine	Cl	O-amino acid
CF_3	H	Cl	S	Cytosine	Cl	O-amino acid
CF_3	H	Cl	S	Adenine	Cl	O-amino acid
CF_3	H	Cl	S	Hypoxanthine	Cl	O-amino acid
CF_3	H	Cl	S	5-Fluorouracil	Cl	O-amino acid
CF_3	H	Cl	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	H	Cl	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	H	Cl	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	H	Cl	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	H	Cl	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	H	Cl	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	Cl	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	Cl	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	H	Cl	S	2-Aminoadenine	Cl	O-amino acid
CF_3	H	Cl	S	2-Amino-8-fluoroadenine	Cl	O-amino acid

Gilead Exhibit 2015
PGR2023-00046 - Page 00962

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	Cl	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	H	Cl	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	H	Cl	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	H	Cl	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	H	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	H	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	H	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	H	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	H	Cl	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	H	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	Cl	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	H	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	Cl	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	H	Cl	S	Thymine	Cl	O-acyl
CF_3	H	Cl	S	Uracil	Cl	O-acyl
CF_3	H	Cl	S	Guanine	Cl	O-acyl
CF_3	H	Cl	S	Cytosine	Cl	O-acyl
CF_3	H	Cl	S	Adenine	Cl	O-acyl
CF_3	H	Cl	S	Hypoxanthine	Cl	O-acyl
CF_3	H	Cl	S	5-Fluorouracil	Cl	O-acyl
CF_3	H	Cl	S	8-Fluoroguanine	Cl	O-acyl
CF_3	H	Cl	S	5-Fluorocytosine	Cl	O-acyl
CF_3	H	Cl	S	8-Fluoroadenine	Cl	O-acyl
CF_3	H	Cl	S	2-Fluoroadenine	Cl	O-acyl
CF_3	H	Cl	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	H	Cl	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	Cl	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	Cl	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	H	Cl	S	2-Aminoadenine	Cl	O-acyl
CF_3	H	Cl	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	Cl	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	H	Cl	S	2-N-acetylguanine	Cl	O-acyl
CF_3	H	Cl	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	H	Cl	S	6-N-acetyladenine	Cl	O-acyl
CF_3	H	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	H	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	H	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	H	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	H	Cl	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	H	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	Cl	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	H	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	H	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	Cl	S	2-N-acetylaminohypoxanthine	Cl	O-acyl

Gilead Exhibit 2015
PGR2023-00046 - Page 00963

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Cl	S	Thymine	H	O-amino acid
CF_3	H	Cl	S	Uracil	H	O-amino acid
CF_3	H	Cl	S	Guanine	H	O-amino acid
CF_3	H	Cl	S	Cytosine	H	O-amino acid
CF_3	H	Cl	S	Adenine	H	O-amino acid
CF_3	H	Cl	S	Hypoxanthine	H	O-amino acid
CF_3	H	Cl	S	5-Fluorouracil	H	O-amino acid
CF_3	H	Cl	S	8-Fluoroguanine	H	O-amino acid
CF_3	H	Cl	S	5-Fluorocytosine	H	O-amino acid
CF_3	H	Cl	S	8-Fluoroadenine	H	O-amino acid
CF_3	H	Cl	S	2-Fluoroadenine	H	O-amino acid
CF_3	H	Cl	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	H	Cl	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	H	Cl	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	H	Cl	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	H	Cl	S	2-Aminoadenine	H	O-amino acid
CF_3	H	Cl	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	H	Cl	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	Cl	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	H	Cl	S	2-N-acetylguanine	H	O-amino acid
CF_3	H	Cl	S	4-N-acetylcytosine	H	O-amino acid
CF_3	H	Cl	S	6-N-acetyladenine	H	O-amino acid
CF_3	H	Cl	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	H	Cl	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	H	Cl	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	H	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	H	Cl	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	H	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	H	Cl	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	H	Cl	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	H	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	Cl	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	H	Cl	S	Thymine	H	O-acyl
CF_3	H	Cl	S	Uracil	H	O-acyl
CF_3	H	Cl	S	Guanine	H	O-acyl
CF_3	H	Cl	S	Cytosine	H	O-acyl
CF_3	H	Cl	S	Adenine	H	O-acyl
CF_3	H	Cl	S	Hypoxanthine	H	O-acyl
CF_3	H	Cl	S	5-Fluorouracil	H	O-acyl
CF_3	H	Cl	S	8-Fluoroguanine	H	O-acyl
CF_3	H	Cl	S	5-Fluorocytosine	H	O-acyl
CF_3	H	Cl	S	8-Fluoroadenine	H	O-acyl
CF_3	H	Cl	S	2-Fluoroadenine	H	O-acyl
CF_3	H	Cl	S	2,8-Difluoroadenine	H	O-acyl
CF_3	H	Cl	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	H	Cl	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	H	Cl	S	2,8-Difluorohypoxanthine	H	O-acyl

Gilead Exhibit 2015
PGR2023-00046 - Page 00964

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Cl	S	2-Aminoadenine	H	O-acyl
CF_3	H	Cl	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	H	Cl	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	Cl	S	2-Aminohypoxanthine	H	O-acyl
CF_3	H	Cl	S	2-N-acetylguanine	H	O-acyl
CF_3	H	Cl	S	4-N-acetylcytosine	H	O-acyl
CF_3	H	Cl	S	6-N-acetyladenine	H	O-acyl
CF_3	H	Cl	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	H	Cl	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	H	Cl	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	H	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	H	Cl	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	H	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	H	Cl	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	H	Cl	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	H	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	Cl	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	H	H	S	Thymine	F	O-amino acid
CF_3	H	H	S	Uracil	F	O-amino acid
CF_3	H	H	S	Guanine	F	O-amino acid
CF_3	H	H	S	Cytosine	F	O-amino acid
CF_3	H	H	S	Adenine	F	O-amino acid
CF_3	H	H	S	Hypoxanthine	F	O-amino acid
CF_3	H	H	S	5-Fluorouracil	F	O-amino acid
CF_3	H	H	S	8-Fluoroguanine	F	O-amino acid
CF_3	H	H	S	5-Fluorocytosine	F	O-amino acid
CF_3	H	H	S	8-Fluoroadenine	F	O-amino acid
CF_3	H	H	S	2-Fluoroadenine	F	O-amino acid
CF_3	H	H	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	H	H	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	H	H	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	H	H	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	H	H	S	2-Aminoadenine	F	O-amino acid
CF_3	H	H	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	H	H	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	H	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	H	H	S	2-N-acetylguanine	F	O-amino acid
CF_3	H	H	S	4-N-acetylcytosine	F	O-amino acid
CF_3	H	H	S	6-N-acetyladenine	F	O-amino acid
CF_3	H	H	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	H	H	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	H	H	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	H	H	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	H	H	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	H	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	H	H	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	H	H	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid

Gilead Exhibit 2015
PGR2023-00046 - Page 00965

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	H	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	H	H	S	Thymine	F	O-acyl
CF_3	H	H	S	Uracil	F	O-acyl
CF_3	H	H	S	Guanine	F	O-acyl
CF_3	H	H	S	Cytosine	F	O-acyl
CF_3	H	H	S	Adenine	F	O-acyl
CF_3	H	H	S	Hypoxanthine	F	O-acyl
CF_3	H	H	S	5-Fluorouracil	F	O-acyl
CF_3	H	H	S	8-Fluoroguanine	F	O-acyl
CF_3	H	H	S	5-Fluorocytosine	F	O-acyl
CF_3	H	H	S	8-Fluoroadenine	F	O-acyl
CF_3	H	H	S	2-Fluoroadenine	F	O-acyl
CF_3	H	H	S	2,8-Difluoroadenine	F	O-acyl
CF_3	H	H	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	H	H	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	H	H	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	H	H	S	2-Aminoadenine	F	O-acyl
CF_3	H	H	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	H	H	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	H	S	2-Aminohypoxanthine	F	O-acyl
CF_3	H	H	S	2-N-acetylguanine	F	O-acyl
CF_3	H	H	S	4-N-acetylcytosine	F	O-acyl
CF_3	H	H	S	6-N-acetyladenine	F	O-acyl
CF_3	H	H	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	H	H	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	H	H	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	H	H	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	H	H	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	H	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	H	H	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	H	H	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	H	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	H	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	H	H	S	Thymine	Br	O-amino acid
CF_3	H	H	S	Uracil	Br	O-amino acid
CF_3	H	H	S	Guanine	Br	O-amino acid
CF_3	H	H	S	Cytosine	Br	O-amino acid
CF_3	H	H	S	Adenine	Br	O-amino acid
CF_3	H	H	S	Hypoxanthine	Br	O-amino acid
CF_3	H	H	S	5-Fluorouracil	Br	O-amino acid
CF_3	H	H	S	8-Fluoroguanine	Br	O-amino acid
CF_3	H	H	S	5-Fluorocytosine	Br	O-amino acid
CF_3	H	H	S	8-Fluoroadenine	Br	O-amino acid
CF_3	H	H	S	2-Fluoroadenine	Br	O-amino acid
CF_3	H	H	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	H	H	S	2-Fluorohypoxanthine	Br	O-amino acid

Gilead Exhibit 2015
PGR2023-00046 - Page 00966

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	H	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	H	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	H	H	S	2-Aminoadenine	Br	O-amino acid
CF_3	H	H	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	H	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	H	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	H	H	S	2-N-acetylguanine	Br	O-amino acid
CF_3	H	H	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	H	H	S	6-N-acetyladenine	Br	O-amino acid
CF_3	H	H	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	H	H	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	H	H	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	H	H	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	H	H	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	H	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	H	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	H	H	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	H	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	H	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	H	H	S	Thymine	Br	O-acyl
CF_3	H	H	S	Uracil	Br	O-acyl
CF_3	H	H	S	Guanine	Br	O-acyl
CF_3	H	H	S	Cytosine	Br	O-acyl
CF_3	H	H	S	Adenine	Br	O-acyl
CF_3	H	H	S	Hypoxanthine	Br	O-acyl
CF_3	H	H	S	5-Fluorouracil	Br	O-acyl
CF_3	H	H	S	8-Fluoroguanine	Br	O-acyl
CF_3	H	H	S	5-Fluorocytosine	Br	O-acyl
CF_3	H	H	S	8-Fluoroadenine	Br	O-acyl
CF_3	H	H	S	2-Fluoroadenine	Br	O-acyl
CF_3	H	H	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	H	H	S	2-Fluorohypoxanthine	Br	O-acyl
CF_3	H	H	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	H	H	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	H	H	S	2-Aminoadenine	Br	O-acyl
CF_3	H	H	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	H	H	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	H	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	H	H	S	2-N-acetylguanine	Br	O-acyl
CF_3	H	H	S	4-N-acetylcytosine	Br	O-acyl
CF_3	H	H	S	6-N-acetyladenine	Br	O-acyl
CF_3	H	H	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	H	H	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	H	H	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	H	H	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	H	H	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	H	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl

Gilead Exhibit 2015
PGR2023-00046 - Page 00967

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	H	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	H	H	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	H	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	H	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	H	H	S	Thymine	Cl	O-amino acid
CF_3	H	H	S	Uracil	Cl	O-amino acid
CF_3	H	H	S	Guanine	Cl	O-amino acid
CF_3	H	H	S	Cytosine	Cl	O-amino acid
CF_3	H	H	S	Adenine	Cl	O-amino acid
CF_3	H	H	S	Hypoxanthine	Cl	O-amino acid
CF_3	H	H	S	5-Fluorouracil	Cl	O-amino acid
CF_3	H	H	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	H	H	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	H	H	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	H	H	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	H	H	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	H	H	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	H	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	H	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	H	H	S	2-Aminoadenine	Cl	O-amino acid
CF_3	H	H	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	H	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	H	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	H	H	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	H	H	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	H	H	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	H	H	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	H	H	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	H	H	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	H	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	H	H	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	H	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	H	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	H	H	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	H	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	H	H	S	Thymine	Cl	O-acyl
CF_3	H	H	S	Uracil	Cl	O-acyl
CF_3	H	H	S	Guanine	Cl	O-acyl
CF_3	H	H	S	Cytosine	Cl	O-acyl
CF_3	H	H	S	Adenine	Cl	O-acyl
CF_3	H	H	S	Hypoxanthine	Cl	O-acyl
CF_3	H	H	S	5-Fluorouracil	Cl	O-acyl
CF_3	H	H	S	8-Fluoroguanine	Cl	O-acyl
CF_3	H	H	S	5-Fluorocytosine	Cl	O-acyl
CF_3	H	H	S	8-Fluoroadenine	Cl	O-acyl
CF_3	H	H	S	2-Fluoroadenine	Cl	O-acyl

Gilead Exhibit 2015
PGR2023-00046 - Page 00968

R^6	R^2	R^8	X	Base	R^{10}	R^9
CF_3	H	H	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	H	H	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	H	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	H	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	H	H	S	2-Aminoadenine	Cl	O-acyl
CF_3	H	H	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	H	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	H	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	H	H	S	2-N-acetylguanine	Cl	O-acyl
CF_3	H	H	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	H	H	S	6-N-acetyladenine	Cl	O-acyl
CF_3	H	H	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	H	H	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	H	H	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	H	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	H	H	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	H	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	H	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	H	H	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	H	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	H	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	H	H	S	Thymine	H	O-amino acid
CF_3	H	H	S	Uracil	H	O-amino acid
CF_3	H	H	S	Guanine	H	O-amino acid
CF_3	H	H	S	Cytosine	H	O-amino acid
CF_3	H	H	S	Adenine	H	O-amino acid
CF_3	H	H	S	Hypoxanthine	H	O-amino acid
CF_3	H	H	S	5-Fluorouracil	H	O-amino acid
CF_3	H	H	S	8-Fluoroguanine	H	O-amino acid
CF_3	H	H	S	5-Fluorocytosine	H	O-amino acid
CF_3	H	H	S	8-Fluoroadenine	H	O-amino acid
CF_3	H	H	S	2-Fluoroadenine	H	O-amino acid
CF_3	H	H	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	H	H	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	H	H	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	H	H	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	H	H	S	2-Aminoadenine	H	O-amino acid
CF_3	H	H	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	H	H	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	H	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	H	H	S	2-N-acetylguanine	H	O-amino acid
CF_3	H	H	S	4-N-acetylcytosine	H	O-amino acid
CF_3	H	H	S	6-N-acetyladenine	H	O-amino acid
CF_3	H	H	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	H	H	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	H	H	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	H	H	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid

Gilead Exhibit 2015
PGR2023-00046 - Page 00969

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	H	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	H	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	H	H	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	H	H	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	H	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	H	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	H	H	S	Thymine	H	O-acyl
CF_3	H	H	S	Uracil	H	O-acyl
CF_3	H	H	S	Guanine	H	O-acyl
CF_3	H	H	S	Cytosine	H	O-acyl
CF_3	H	H	S	Adenine	H	O-acyl
CF_3	H	H	S	Hypoxanthine	H	O-acyl
CF_3	H	H	S	5-Fluorouracil	H	O-acyl
CF_3	H	H	S	8-Fluoroguanine	H	O-acyl
CF_3	H	H	S	5-Fluorocytosine	H	O-acyl
CF_3	H	H	S	8-Fluoroadenine	H	O-acyl
CF_3	H	H	S	2-Fluoroadenine	H	O-acyl
CF_3	H	H	S	2,8-Difluoroadenine	H	O-acyl
CF_3	H	H	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	H	H	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	H	H	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	H	H	S	2-Aminoadenine	H	O-acyl
CF_3	H	H	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	H	H	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	H	S	2-Aminohypoxanthine	H	O-acyl
CF_3	H	H	S	2-N-acetylguanine	H	O-acyl
CF_3	H	H	S	4-N-acetylcytosine	H	O-acyl
CF_3	H	H	S	6-N-acetyladenine	H	O-acyl
CF_3	H	H	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	H	H	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	H	H	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	H	H	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	H	H	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	H	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	H	H	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	H	H	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	H	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	H	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	H	OH	S	Thymine	F	O-amino acid
CF_3	H	OH	S	Uracil	F	O-amino acid
CF_3	H	OH	S	Guanine	F	O-amino acid
CF_3	H	OH	S	Cytosine	F	O-amino acid
CF_3	H	OH	S	Adenine	F	O-amino acid
CF_3	H	OH	S	Hypoxanthine	F	O-amino acid
CF_3	H	OH	S	5-Fluorouracil	F	O-amino acid
CF_3	H	OH	S	8-Fluoroguanine	F	O-amino acid
CF_3	H	OH	S	5-Fluorocytosine	F	O-amino acid

Gilead Exhibit 2015
PGR2023-00046 - Page 00970

R^6	R^7	R^8	X	Base	R^{16}	R^9
CF_3	H	OH	S	8-Fluoroadenine	F	O-amino acid
CF_3	H	OH	S	2-Fluoroadenine	F	O-amino acid
CF_3	H	OH	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	H	OH	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	H	OH	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	H	OH	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	H	OH	S	2-Aminoadenine	F	O-amino acid
CF_3	H	OH	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	H	OH	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	OH	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	H	OH	S	2-N-acetylguanine	F	O-amino acid
CF_3	H	OH	S	4-N-acetylcytosine	F	O-amino acid
CF_3	H	OH	S	6-N-acetyladenine	F	O-amino acid
CF_3	H	OH	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	H	OH	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	H	OH	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	H	OH	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	H	OH	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	H	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	H	OH	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	H	OH	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	H	OH	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	OH	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	H	OH	S	Thymine	F	O-acyl
CF_3	H	OH	S	Uracil	F	O-acyl
CF_3	H	OH	S	Guanine	F	O-acyl
CF_3	H	OH	S	Cytosine	F	O-acyl
CF_3	H	OH	S	Adenine	F	O-acyl
CF_3	H	OH	S	Hypoxanthine	F	O-acyl
CF_3	H	OH	S	5-Fluorouracil	F	O-acyl
CF_3	H	OH	S	8-Fluoroguanine	F	O-acyl
CF_3	H	OH	S	5-Fluorocytosine	F	O-acyl
CF_3	H	OH	S	8-Fluoroadenine	F	O-acyl
CF_3	H	OH	S	2-Fluoroadenine	F	O-acyl
CF_3	H	OH	S	2,8-Difluoroadenine	F	O-acyl
CF_3	H	OH	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	H	OH	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	H	OH	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	H	OH	S	2-Aminoadenine	F	O-acyl
CF_3	H	OH	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	H	OH	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	OH	S	2-Aminohypoxanthine	F	O-acyl
CF_3	H	OH	S	2-N-acetylguanine	F	O-acyl
CF_3	H	OH	S	4-N-acetylcytosine	F	O-acyl
CF_3	H	OH	S	6-N-acetyladenine	F	O-acyl
CF_3	H	OH	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	H	OH	S	4-N-acetyl-5-fluorocytosine	F	O-acyl

Gilead Exhibit 2015
PGR2023-00046 - Page 00971

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	OH	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	H	OH	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	H	OH	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	H	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	H	OH	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	H	OH	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	H	OH	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	OH	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	H	OH	S	Thymine	Br	O-amino acid
CF_3	H	OH	S	Uracil	Br	O-amino acid
CF_3	H	OH	S	Guanine	Br	O-amino acid
CF_3	H	OH	S	Cytosine	Br	O-amino acid
CF_3	H	OH	S	Adenine	Br	O-amino acid
CF_3	H	OH	S	Hypoxanthine	Br	O-amino acid
CF_3	H	OH	S	5-Fluorouracil	Br	O-amino acid
CF_3	H	OH	S	8-Fluoroguanine	Br	O-amino acid
CF_3	H	OH	S	5-Fluorocytosine	Br	O-amino acid
CF_3	H	OH	S	8-Fluoroadenine	Br	O-amino acid
CF_3	H	OH	S	2-Fluoroadenine	Br	O-amino acid
CF_3	H	OH	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	H	OH	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	OH	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	OH	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	H	OH	S	2-Aminoadenine	Br	O-amino acid
CF_3	H	OH	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	OH	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	OH	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	H	OH	S	2-N-acetylguanine	Br	O-amino acid
CF_3	H	OH	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	H	OH	S	6-N-acetyladenine	Br	O-amino acid
CF_3	H	OH	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	H	OH	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	H	OH	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	H	OH	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	H	OH	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	H	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	OH	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	H	OH	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	H	OH	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	OH	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	H	OH	S	Thymine	Br	O-acyl
CF_3	H	OH	S	Uracil	Br	O-acyl
CF_3	H	OH	S	Guanine	Br	O-acyl
CF_3	H	OH	S	Cytosine	Br	O-acyl
CF_3	H	OH	S	Adenine	Br	O-acyl
CF_3	H	OH	S	Hypoxanthine	Br	O-acyl
CF_3	H	OH	S	5-Fluorouracil	Br	O-acyl

Gilead Exhibit 2015
PGR2023-00046 - Page 00972

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	OH	S	8-Fluoroguanine	Br	O-acyl
CF_3	H	OH	S	5-Fluorocytosine	Br	O-acyl
CF_3	H	OH	S	8-Fluoroadenine	Br	O-acyl
CF_3	H	OH	S	2-Fluoroadenine	Br	O-acyl
CF_3	H	OH	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	H	OH	S	2-Fluorohypoxanthine	Br	O-acyl
CF_3	H	OH	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	H	OH	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	H	OH	S	2-Aminoadenine	Br	O-acyl
CF_3	H	OH	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	H	OH	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	OH	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	H	OH	S	2-N-acetylguanine	Br	O-acyl
CF_3	H	OH	S	4-N-acetylcytosine	Br	O-acyl
CF_3	H	OH	S	6-N-acetyladenine	Br	O-acyl
CF_3	H	OH	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	H	OH	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	H	OH	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	H	OH	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	H	OH	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	H	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	H	OH	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	H	OH	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	H	OH	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	OH	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	H	OH	S	Thymine	Cl	O-amino acid
CF_3	H	OH	S	Uracil	Cl	O-amino acid
CF_3	H	OH	S	Guanine	Cl	O-amino acid
CF_3	H	OH	S	Cytosine	Cl	O-amino acid
CF_3	H	OH	S	Adenine	Cl	O-amino acid
CF_3	H	OH	S	Hypoxanthine	Cl	O-amino acid
CF_3	H	OH	S	5-Fluorouracil	Cl	O-amino acid
CF_3	H	OH	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	H	OH	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	H	OH	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	H	OH	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	H	OH	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	H	OH	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	OH	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	OH	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	H	OH	S	2-Aminoadenine	Cl	O-amino acid
CF_3	H	OH	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	OH	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	OH	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	H	OH	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	H	OH	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	H	OH	S	6-N-acetyladenine	Cl	O-amino acid

Gilead Exhibit 2015
PGR2023-00046 - Page 00973

R^6	R^7	R^9	X	Base	R^{10}	R^8
CF_3	H	OH	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	H	OH	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	H	OH	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	H	OH	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	H	OH	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	H	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	OH	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	H	OH	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	OH	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	OH	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	H	OH	S	Thymine	Cl	O-acyl
CF_3	H	OH	S	Uracil	Cl	O-acyl
CF_3	H	OH	S	Guanine	Cl	O-acyl
CF_3	H	OH	S	Cytosine	Cl	O-acyl
CF_3	H	OH	S	Adenine	Cl	O-acyl
CF_3	H	OH	S	Hypoxanthine	Cl	O-acyl
CF_3	H	OH	S	5-Fluorouracil	Cl	O-acyl
CF_3	H	OH	S	8-Fluoroguanine	Cl	O-acyl
CF_3	H	OH	S	5-Fluorocytosine	Cl	O-acyl
CF_3	H	OH	S	8-Fluoroadenine	Cl	O-acyl
CF_3	H	OH	S	2-Fluoroadenine	Cl	O-acyl
CF_3	H	OH	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	H	OH	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	OH	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	OH	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	H	OH	S	2-Aminoadenine	Cl	O-acyl
CF_3	H	OH	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	OH	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	OH	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	H	OH	S	2-N-acetylguanine	Cl	O-acyl
CF_3	H	OH	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	H	OH	S	6-N-acetyladenine	Cl	O-acyl
CF_3	H	OH	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	H	OH	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	H	OH	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	H	OH	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	H	OH	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	H	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	OH	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	H	OH	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	H	OH	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	OH	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	H	OH	S	Thymine	H	O-amino acid
CF_3	H	OH	S	Uracil	H	O-amino acid
CF_3	H	OH	S	Guanine	H	O-amino acid
CF_3	H	OH	S	Cytosine	H	O-amino acid
CF_3	H	OH	S	Adenine	H	O-amino acid

Gilead Exhibit 2015
PGR2023-00046 - Page 00974

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	OH	S	Hypoxanthine	H	O-amino acid
CF_3	H	OH	S	5-Fluorouracil	H	O-amino acid
CF_3	H	OH	S	8-Fluoroguanine	H	O-amino acid
CF_3	H	OH	S	5-Fluorocytosine	H	O-amino acid
CF_3	H	OH	S	8-Fluoroadenine	H	O-amino acid
CF_3	H	OH	S	2-Fluoroadenine	H	O-amino acid
CF_3	H	OH	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	H	OH	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	H	OH	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	H	OH	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	H	OH	S	2-Aminoadenine	H	O-amino acid
CF_3	H	OH	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	H	OH	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	OH	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	H	OH	S	2-N-acetylguanine	H	O-amino acid
CF_3	H	OH	S	4-N-acetylcytosine	H	O-amino acid
CF_3	H	OH	S	6-N-acetyladenine	H	O-amino acid
CF_3	H	OH	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	H	OH	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	H	OH	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	H	OH	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	H	OH	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	H	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	H	OH	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	H	OH	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	H	OH	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	OH	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	H	OH	S	Thymine	H	O-acyl
CF_3	H	OH	S	Uracil	H	O-acyl
CF_3	H	OH	S	Guanine	H	O-acyl
CF_3	H	OH	S	Cytosine	H	O-acyl
CF_3	H	OH	S	Adenine	H	O-acyl
CF_3	H	OH	S	Hypoxanthine	H	O-acyl
CF_3	H	OH	S	5-Fluorouracil	H	O-acyl
CF_3	H	OH	S	8-Fluoroguanine	H	O-acyl
CF_3	H	OH	S	5-Fluorocytosine	H	O-acyl
CF_3	H	OH	S	8-Fluoroadenine	H	O-acyl
CF_3	H	OH	S	2-Fluoroadenine	H	O-acyl
CF_3	H	OH	S	2,8-Difluoroadenine	H	O-acyl
CF_3	H	OH	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	H	OH	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	H	OH	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	H	OH	S	2-Aminoadenine	H	O-acyl
CF_3	H	OH	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	H	OH	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	OH	S	2-Aminohypoxanthine	H	O-acyl
CF_3	H	OH	S	2-N-acetylguanine	H	O-acyl

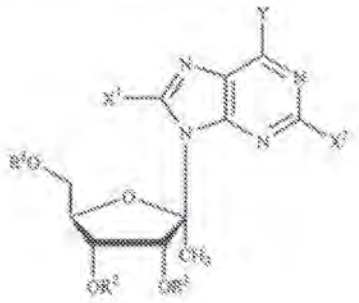
Gilead Exhibit 2015
PGR2023-00046 - Page 00975

R^6	R^7	R^8	X	Base	R^{10}	R^5
CF_3	H	OH	S	4-N-acetylcytosine	H	O-acyl
CF_3	H	OH	S	6-N-acetyladenine	H	O-acyl
CF_3	H	OH	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	H	OH	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	H	OH	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	H	OH	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	H	OH	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	H	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	H	OH	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	H	OH	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	H	OH	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	OH	S	2-N-acetylaminohypoxanthine	H	O-acyl

Gilead Exhibit 2015
PGR2023-00046 - Page 00976

We claim.

1. A compound of Formula (I), or a pharmaceutically acceptable salt thereof, of the formula:



(I)

wherein:

R^1, R^2 and R^3 are independently H, phosphate or a stabilized 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; an amino acid residue; a carbohydrate; 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;

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

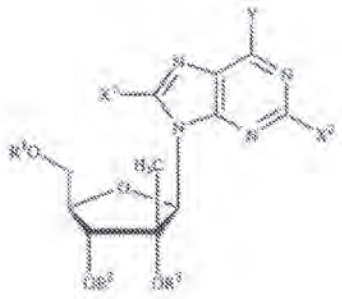
Y is hydrogen, bromo, chloro, fluoro, iodo, OH, OR^4, NH, NHR^5, NR^4R^5, SH and SR^5;

X^1 and X^2 are independently selected from the group consisting of H, straight chained, branched or cyclic alkyl, CO-alkyl, CO-aryl, CO-alkoxyalkyl, chloro, bromo, fluoro, iodo, OH, OR^4, NH, NHR^5, NR^4R^5, SH and SR^4; and

R^4 and R^5 are independently hydrogen, acyl, or alkyl.

2. A compound of Formula II, or a pharmaceutically acceptable salt of the formula:

Gilead Exhibit 2015
PGR2023-00046 - Page 00977



(II)

wherein:

R^1, R^2 and R^3 are independently H, phosphate or a stabilized 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; an amino acid residue; a carbohydrate; 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;

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

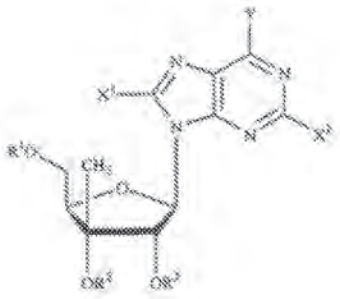
Y is hydrogen, bromo, chloro, fluoro, iodo, OR^4, NR^4R^5 or SR^5;

X^1 and X^2 are independently selected from the group consisting of H, straight chained, branched or cyclic alkyl, CO-alkyl, CO-aryl, CO-alkoxyalkyl, chloro, bromo, fluoro, iodo, OR^4, NR^4NR^5 or SR^5; and

R^4 and R^5 are independently hydrogen, acyl, or alkyl.

3. A compound of Formula III, or a pharmaceutically acceptable salt thereof:

Gilead Exhibit 2015
PGR2023-00046 - Page 00978



(III)

wherein:

R^1, R^2 and R^3 are independently H, phosphate or a stabilized 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; an amino acid residue; a carbohydrate; 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;

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

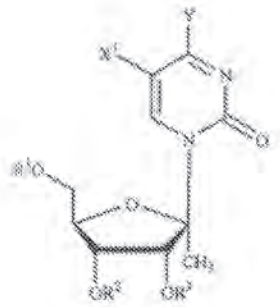
Y is hydrogen, bromo, chloro, fluoro, iodo, OR^4, NR^4R^5 or SR^4;

X^1 and X^2 are independently selected from the group consisting of H, straight chained, branched or cyclic alkyl, CO-alkyl, CO-aryl, CO-alkoxyalkyl, chloro, bromo, fluoro, iodo, OR^4, NR^4NR^5 or SR^5; and

R^4 and R^5 are independently hydrogen, acyl, or alkyl.

4. A compound of Formula IV, or a pharmaceutically acceptable salt or prodrug thereof:

Gilead Exhibit 2015
PGR2023-00046 - Page 00979



(IV)

wherein:

R^1, R^2 and R^3 are independently H, phosphate or a stabilized 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; an amino acid residue; a carbohydrate; 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;

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

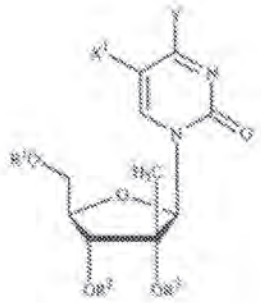
Y is hydrogen, bromo, chloro, fluoro, iodo, OR^4, NR^4R^5 or SR^4;

X^1 is selected from the group consisting of H, straight chained, branched or cyclic alkyl, CO-alkyl, CO-aryl, CO-alkoxyalkyl, chloro, bromo, fluoro, iodo, OR^4, NR^4NR^5 or SR^5; and

R^4 and R^5 are independently hydrogen, acyl, or alkyl.

5. A compound of Formula V, or a pharmaceutically acceptable salt or prodrug thereof:

Gilead Exhibit 2015
PGR2023-00046 - Page 00980



(V)

wherein:

R^1, R^2 and R^3 are independently H, phosphate or a stabilized 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; an amino acid residue; a carbohydrate; 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;

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

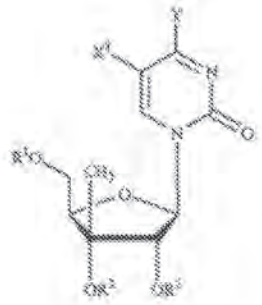
Y is hydrogen, bromo, chloro, fluoro, iodo, OR^4, NR^4R^5 or SR^4;

X^1 is selected from the group consisting of H, straight chained, branched or cyclic alkyl, CO-alkyl, CO-aryl, CO-alkoxyalkyl, chloro, bromo, fluoro, iodo, OR^4, NR^4NR^5 or SR^4; and

R^4 and R^5 are independently hydrogen, acyl, or alkyl.

6. A compound of Formula VI or a pharmaceutically acceptable salt or prodrug thereof:

Gilead Exhibit 2015
PGR2023-00046 - Page 00981



(VI)

wherein:

R^1, R^2 and R^3 are independently H, phosphate or a stabilized 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; an amino acid residue; a carbohydrate; 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;

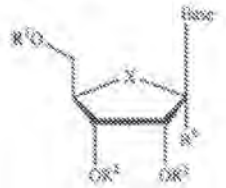
wherein at least one of R^2 and R^3 is not hydrogen;

Y is hydrogen, bromo, chloro, fluoro, iodo, OR^4, NR^4R^5 or SR^4;

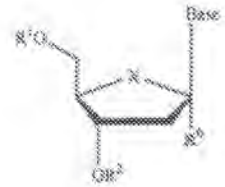
X^1 is selected from the group consisting of H, straight chained, branched or cyclic alkyl, CO-alkyl, CO-aryl, CO-alkoxyalkyl, chloro, bromo, fluoro, iodo, OR^4, NR^4NR^5 or SR^5; and

R^6 and R^5 are independently hydrogen, acyl (including lower acyl), or alkyl (including but not limited to methyl, ethyl, propyl and cyclopropyl).

7. A compound selected from Formulas VII and VIII, or a pharmaceutically acceptable salt or prodrug thereof:



(VII)



(VIII)

Gilead Exhibit 2015
PGR2023-00046 - Page 00982

wherein:

Base is a purine or pyrimidine base;

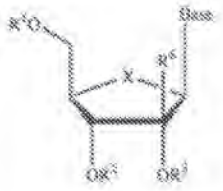
R^1, R^2 and R^3 are independently H, phosphate or a stabilized phosphate; straight chained, branched or cyclic alkyl; acyl; CO-alkyl; CO-aryl; CO-alkoxyalkyl; CO-aryloxyalkyl; CO-substituted aryl; sulfonate ester; benzyl, wherein the phenyl group is optionally substituted with one or more substituents;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

wherein R^2 is not hydrogen;

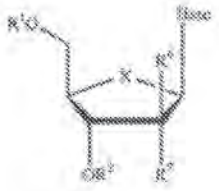
R^6 is alkyl, CH_3, CF_3, azido, cyano, alkenyl, alkynyl, Br-vinyl, 2-Br-ethyl, -C(O)O(alkyl), -C(O)O(lower alkyl), -O(acyl), -O(lower acyl), -O(alkyl), -O(lower alkyl), -O(alkenyl), CF_3, chloro, bromo, fluoro, iodo, NO_2, NH_2, -NH(lower alkyl), -NH(acyl), -N(lower alkyl)$_2$, -N(acyl)$_2$; and

X is O, S, SO_2 or CH_2

8. A compound of Formulas IX and X, or a pharmaceutically acceptable salt:



(IX)



(X)

wherein:

Base is a purine or pyrimidine base;

R^1, R^2 and R^3 are independently H, phosphate or a stabilized 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; an amino acid residue; a carbohydrate; a peptide; cholesterol; or a pharmaceutically

Gilead Exhibit 2015
PGR2023-00046 - Page 00983

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;

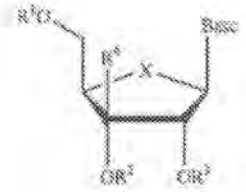
wherein R^2 is not hydrogen;

R^6 is alkyl, CH_3, CF_3, azido, cyano, alkenyl, alkynyl, Br-vinyl, 2-Br-ethyl, -C(O)O(alkyl), -C(O)O(lower alkyl), -O(acyl), -O(lower acyl), -O(alkyl), -O(lower alkyl), -O(alkenyl), CF_3, chloro, bromo, fluoro, iodo, NO_2, NH_2, -NH(lower alkyl), -NH(acyl), -N(lower alkyl)$_2$, -N(acyl)$_2$; and

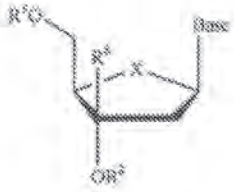
R^7 is hydrogen, OR^3, hydroxy, alkyl, azido, cyano, alkenyl, alkynyl, Br-vinyl, -C(O)O(alkyl), -C(O)O(lower alkyl), -O(acyl), -O(lower acyl), -O(alkyl), -O(lower alkyl), -O(alkenyl), chlorine, bromine, iodine, NO_2, NH_2, -NH(lower alkyl), -NH(acyl), -N(lower alkyl)$_2$, -N(acyl)$_2$; and

X is O, S, SO_2 or CH_2.

9. A compound selected from Formulas XI and XII, or a pharmaceutically acceptable salt thereof:



(XI)



(XII)

wherein:

Base is a purine or pyrimidine base;

R^1, R^2 and R^3 are independently H, phosphate or a stabilized 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; an amino acid residue; a carbohydrate; 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;

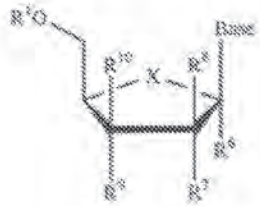
wherein R^2 is not hydrogen;

Gilead Exhibit 2015
PGR2023-00046 - Page 00984

R^6 is alkyl, CH_3, CF_3, azido, cyano, alkenyl, alkynyl, Br-vinyl, 2-Br-ethyl, -C(O)O(alkyl), -C(O)O(lower alkyl), -O(acyl), -O(lower acyl), -O(alkyl), -O(lower alkyl), -O(alkenyl), CF_3, chloro, bromo, fluoro, iodo, NO_2, NH_2, -NH(lower alkyl), -NH(acyl), -N(lower alkyl)$_2$, -N(acyl)$_2$; and

X is O, S, SO_2 or CH_2

10. A compound of Formula XIII, or a pharmaceutically acceptable salt thereof:



(XIII)

wherein:

Base is a purine or pyrimidine base;

R^1, R^2 and R^3 are independently H, phosphate or a stabilized 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; an amino acid residue; a carbohydrate; 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;

R^6 is alkyl, CH_3, CF_3, azido, cyano, alkenyl, alkynyl, Br-vinyl, 2-Br-ethyl, -C(O)O(alkyl), -C(O)O(lower alkyl), -O(acyl), -O(lower acyl), -O(alkyl), -O(lower alkyl), -O(alkenyl), CF_3, chloro, bromo, fluoro, iodo, NO_2, NH_2, -NH(lower alkyl), -NH(acyl), -N(lower alkyl)$_2$, -N(acyl)$_2$;

R^7 and R^9 are independently hydrogen, OR^2, hydroxy, alkyl, azido, cyano, alkenyl, alkynyl, Br-vinyl, -C(O)O(alkyl), -C(O)O(lower alkyl), -O(acyl), -O(lower acyl), -O(alkyl), -O(lower alkyl), -O(alkenyl), chlorine, bromine, iodine, NO_2, NH_2, -NH(lower alkyl), -NH(acyl), -N(lower alkyl)$_2$, -N(acyl)$_2$;

Gilead Exhibit 2015
PGR2023-00046 - Page 00985

wherein at least one of R^7 and R^9 is OR^2, wherein each R^2 is independently phosphate or stabilized phosphate; straight chained, branched or cyclic alkyl; acyl; CO-alkyl, CO-aryl, CO-alkoxyalkyl, CO-aryloxyalkyl, CO-substituted aryl, sulfonate ester, wherein the phenyl group is optionally substituted with one or more substituents; alkylsulfonyl, arylsulfonyl, aralkylsulfonyl, a lipid; 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^2 is H or phosphate;

R^8 and R^{10} are independently H, alkyl, chlorine, bromine or iodine;

alternatively, R^7 and R^{10}, R^8 and R^9, or R^8 and R^{10} can come together to form a pi bond; and

X is O, S, SO_2 or CH_2

11. A method for the treatment of a host infected with a *Flaviviridae* virus, comprising administering an effective treatment amount of a compound or a pharmaceutically acceptable salt thereof as claimed in any one of claims 1-10.

12. The method of claim 11, wherein the virus is hepatitis C.

13. The method of claim 11, wherein the compound or pharmaceutically acceptable salt thereof, is administered in combination or alternation with a second anti-viral agent.

14. The method of claim 13 wherein the second anti-viral agent is selected from the group consisting of an interferon, a ribavirin, an interleukin, a NS3 protease inhibitor, a cysteine protease inhibitor, a phenan-threnequinone, a thiazolidine derivative, a thiazolidine, a benzanilide, a phenan-threnequinone, a helicase inhibitor, a polymerase inhibitor, a nucleotide analogue, a gliotoxin, a cerulenin, an antisense phosphorothioate oligodeoxynucleotide, an inhibitor of IRES-dependent translation, and a ribozyme.

15. The method of claim 14, wherein the second ant-viral agent is an interferon.

16. The method of claim 15, wherein the second agent is selected from the group consisting of pegylated interferon alpha 2a, interferon alphacon-1, natural interferon,

Gilead Exhibit 2015
PGR2023-00046 - Page 00986

albuferon, interferon beta-1a, omega interferon, interferon alpha, interferon gamma, interferon tau, interferon delta and interferon gamma- 1b.

17. The method of claim 11, wherein the compound or pharmaceutically acceptable salt thereof, is in the form of a dosage unit.

18. The method of claim 17, wherein the dosage unit contains 50 to 1000 mg or 0.1 to 50 mg of the compound.

19. The method of claim 17, wherein the dosage unit is a tablet or capsule.

20. The method of claim 11, wherein the host is a human.

21. The method of claim 11, wherein the wherein the compound or pharmaceutically acceptable salt thereof, is in substantially pure form.

22. The method of claim 11, wherein the compound or stereoisomeric or tautomeric form thereof, or pharmaceutically acceptable salt thereof, is at least 90% by weight of the β-D-isomer.

23. The method of claim 11, wherein the compound or stereoisomeric or tautomeric form thereof, or pharmaceutically acceptable salt thereof, is at least 95% by weight of the β-D-isomer.

24. The method of claim 11, wherein the compound is in the form of a pharmaceutically acceptable salt selected from the group consisting of a tosylate, methanesulfonate, acetate, citrate, malonate, tartarate, succinate, benzoate, ascorate, α-ketoglutarate, α-glycerophosphate, formate, fumarate, propionate, glycolate, lactate, pyruvate, oxalate, maleate, salicylate, sulfate, nitrate, bicarbonate, carbonate salts, hydrobromate, hydrochloride, di-hydrochloride, and phosphoric acid salt.

25. The method of claim 24, wherein the pharmaceutically acceptable salt is a hydrochloride salt.

Gilead Exhibit 2015
PGR2023-00046 - Page 00987

26. A pharmaceutical composition comprising a compound of any of claims 1 to 10, or a pharmaceutically acceptable salt thereof.

27. The pharmaceutical composition of claim 26, further comprising a pharmaceutically acceptable carrier, diluent or excipient.

28. The pharmaceutical composition of claim 26 comprising an effective amount of the compound or a pharmaceutically acceptable salt thereof, for the treatment of a host infected with a *Flaviviridae* virus.

29. The composition of claim 28, wherein the *Flaviviridae* virus is hepatitis C.

30. The pharmaceutical composition of claim 26, wherein the compound or a pharmaceutically acceptable salt thereof, is in the form of a dosage unit.

31. The composition of claim 30, wherein the dosage unit contains 50 to 1000 mg or 0.1 to 50 mg of the compound.

32. The composition of claim 30, wherein said dosage unit is a tablet or capsule.

33. The pharmaceutical composition of claim 26, further comprising a second anti-viral agent.

34. The pharmaceutical composition of claim 33, wherein the second anti-viral agent is selected from the group consisting of an interferon, a ribavirin, an interleukin, a NS3 protease inhibitor, a cysteine protease inhibitor, a phenan-threnequinone, a thiazolidine derivative, a thiazolidine, a benzanilide, a phenan-threnequinone, a helicase inhibitor, a polymerase inhibitor, a nucleotide analogue, a gliotoxin, a cerulenin, an antisense phosphorothioate oligodeoxynucleotide, an inhibitor of IRES-dependent translation, and a ribozyme.

Gilead Exhibit 2015
PGR2023-00046 - Page 00988

35. The pharmaceutical composition of claim 34, wherein the second anti-viral agent is an interferon.

36. The pharmaceutical composition of claim 35, wherein the second agent is selected from the group consisting of pegylated interferon alpha 2a, interferon alphacon-1, natural interferon, albuferon, interferon beta-1a, omega interferon, interferon alpha, interferon gamma, interferon tau, interferon delta and interferon gamma- 1b.

37. The pharmaceutical composition of claim 26, or pharmaceutically acceptable salt thereof, is in substantially pure form.

38. The pharmaceutical composition of claim 26, wherein the compound or pharmaceutically acceptable salt thereof; is at least 90% by weight of the β-D-isomer.

39. The pharmaceutical composition of claim 26, wherein the compound or pharmaceutically acceptable salt thereof; is at least 95% by weight of the β-D-isomer.

40. The pharmaceutical composition of claim 26, further comprising a pharmaceutically acceptable carrier suitable for oral, parenteral, inhalant or intravenous delivery.

41. The pharmaceutical composition of claim 26, wherein the compound is in the form of a pharmaceutically acceptable salt selected from the group consisting of a tosylate, methanesulfonate, acetate, citrate, malonate, tartarate, succinate, benzoate, ascorate, α-ketoglutarate, α-glycerophosphate, formate, fumarate, propionate, glycolate, lactate, pyruvate, oxalate, maleate, salicylate, sulfate, nitrate, bicarbonate, carbonate salts, hydrobromate, a hydrochloride, a di-hydrochloride, and phosphoric acid salt.

42. The pharmaceutical composition of claim 41, wherein the pharmaceutically acceptable salt is a hydrochloride salt.

43. A compound or a pharmaceutically acceptable salt thereof, of any of claims 1 to 10, for use in the treatment of a host infected with a *Flaviviridae* virus.

Gilead Exhibit 2015
PGR2023-00046 - Page 00989

44. The compound of claim 43, wherein the virus is hepatitis C.

45. The compound of claim 43, wherein the host is a human.

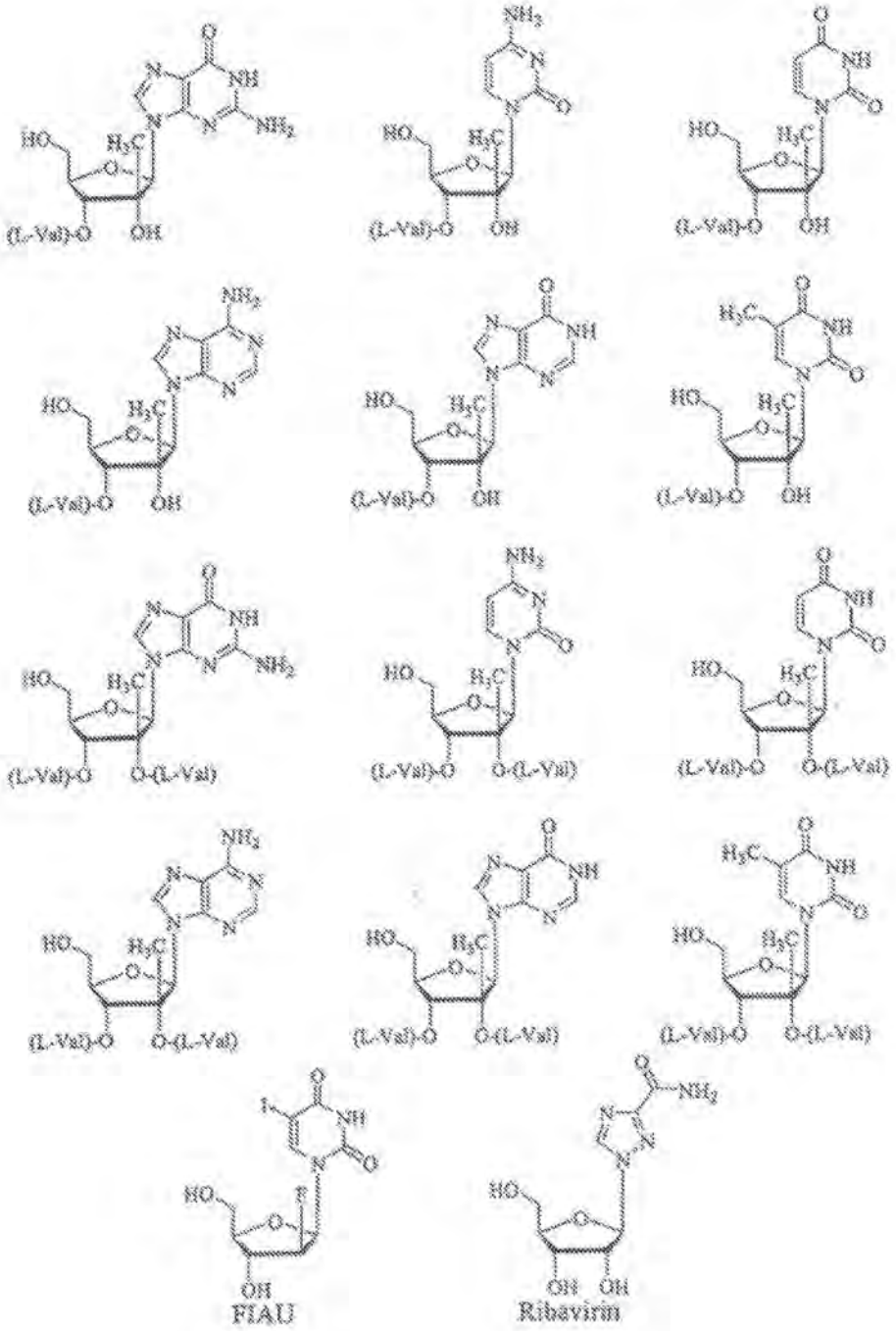
46. The use of a compound or a pharmaceutically acceptable salt thereof, of any of claims 1 to 10 in the manufacture of a medicament for the treatment of a host infected with a *Flaviviridae* virus.

47. The use of claim 46, wherein the virus is hepatitis C.

48. The use of claim 46, wherein the host is a human.

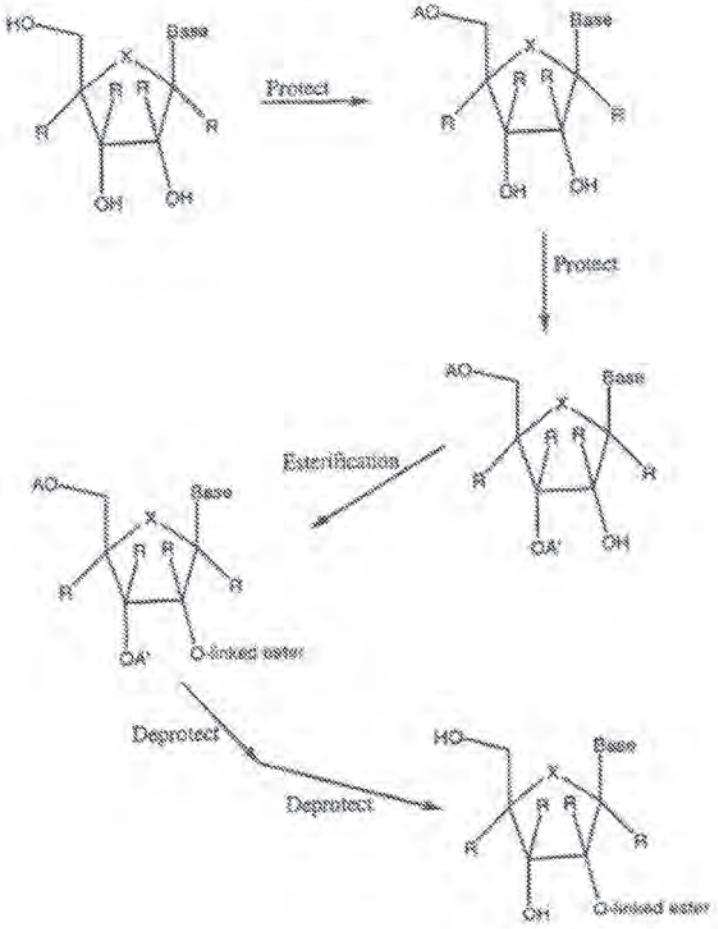
Gilead Exhibit 2015
PGR2023-00046 - Page 00990

Figure 1: Chemical Structures of Illustrative Nucleosides



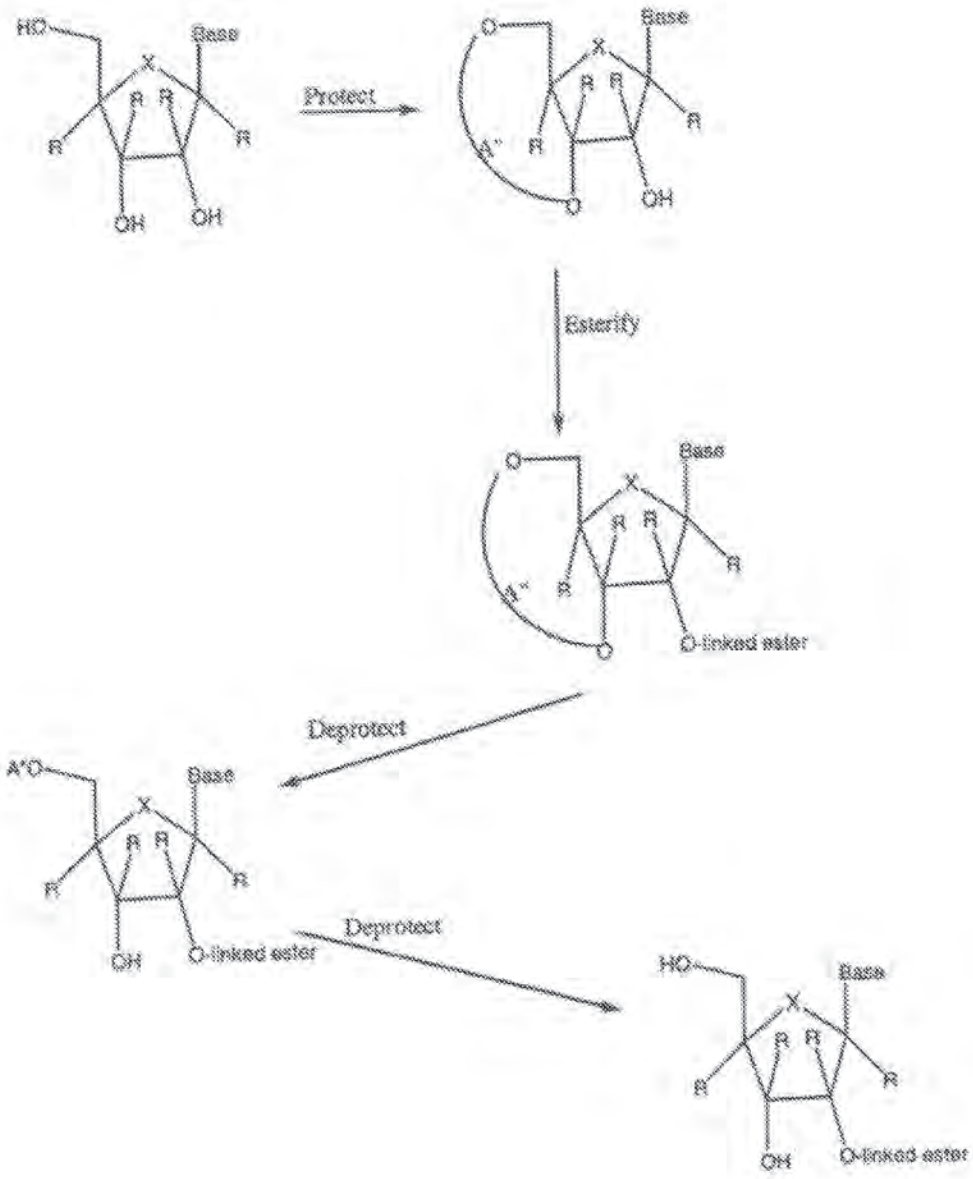
Gilead Exhibit 2015
PGR2023-00046 - Page 00991

Figure 2



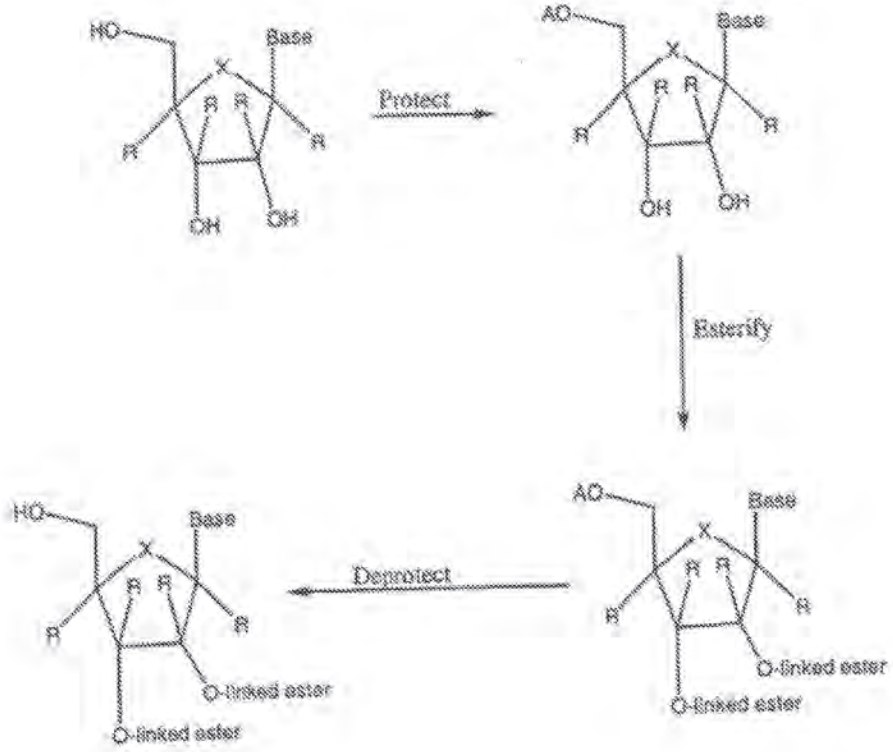
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PGR2023-00046 - Page 00992

Figure 3



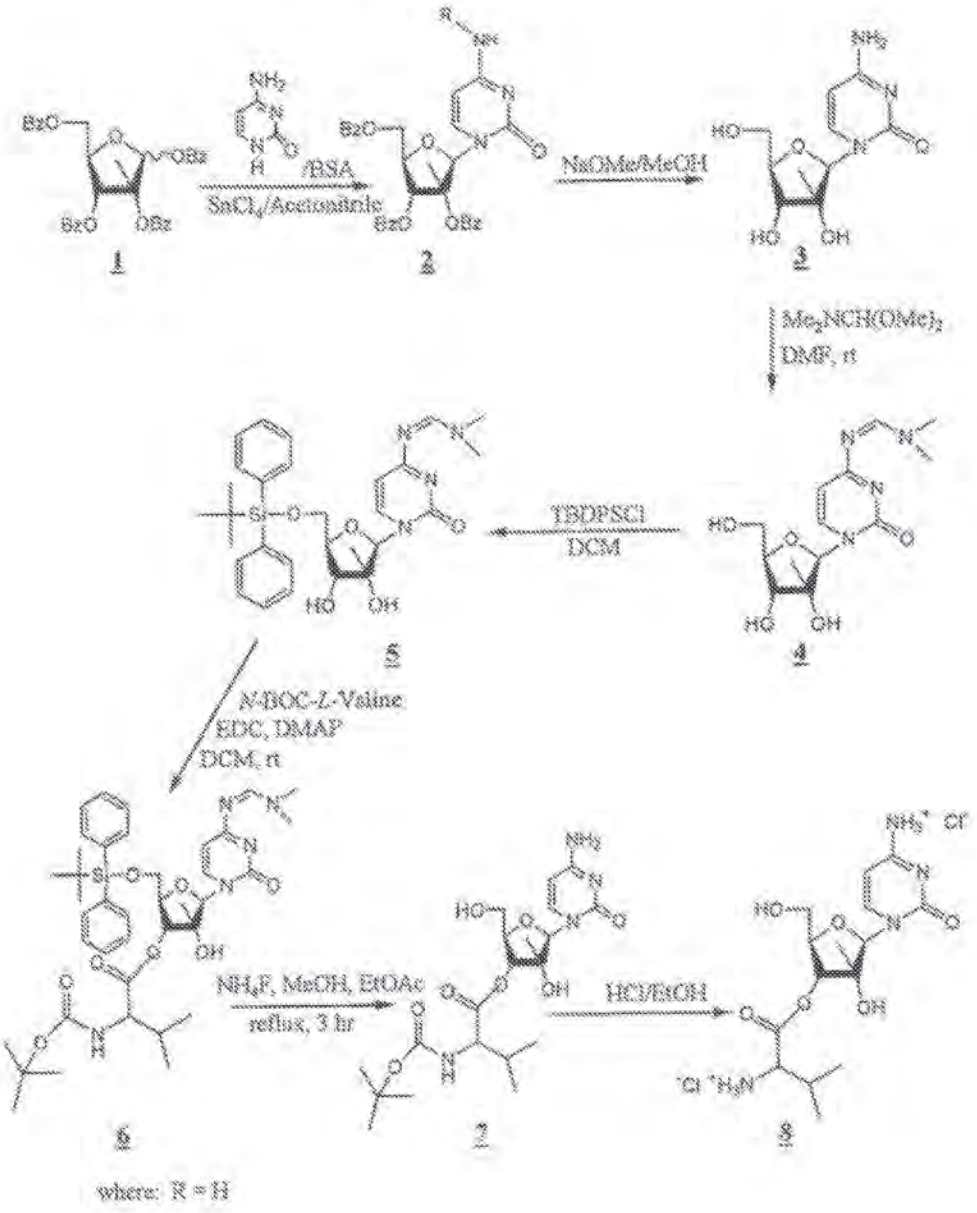
Gilead Exhibit 2015
PGR2023-00046 - Page 00993

Figure 4



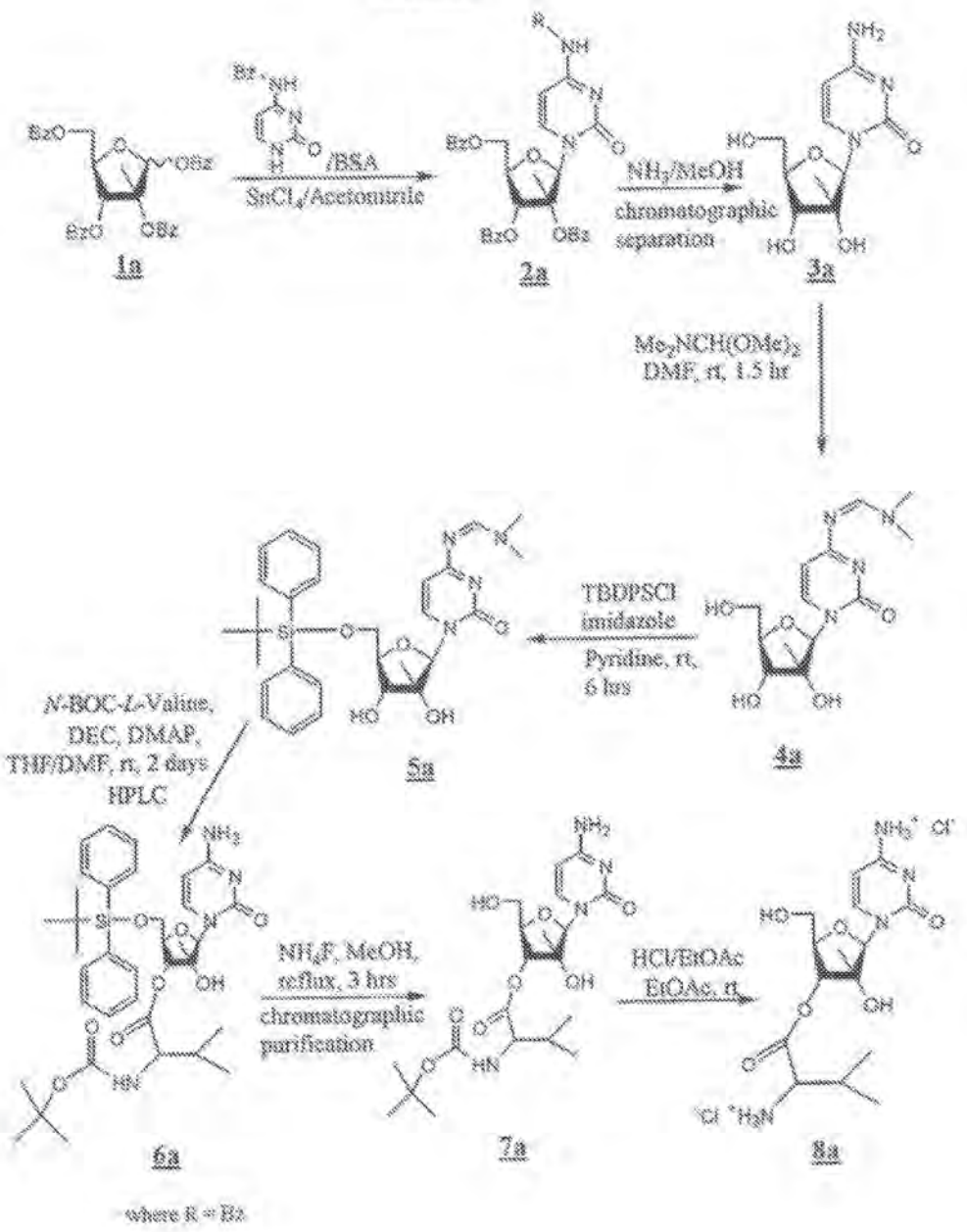
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PGR2023-00046 - Page 00994

Figure 5



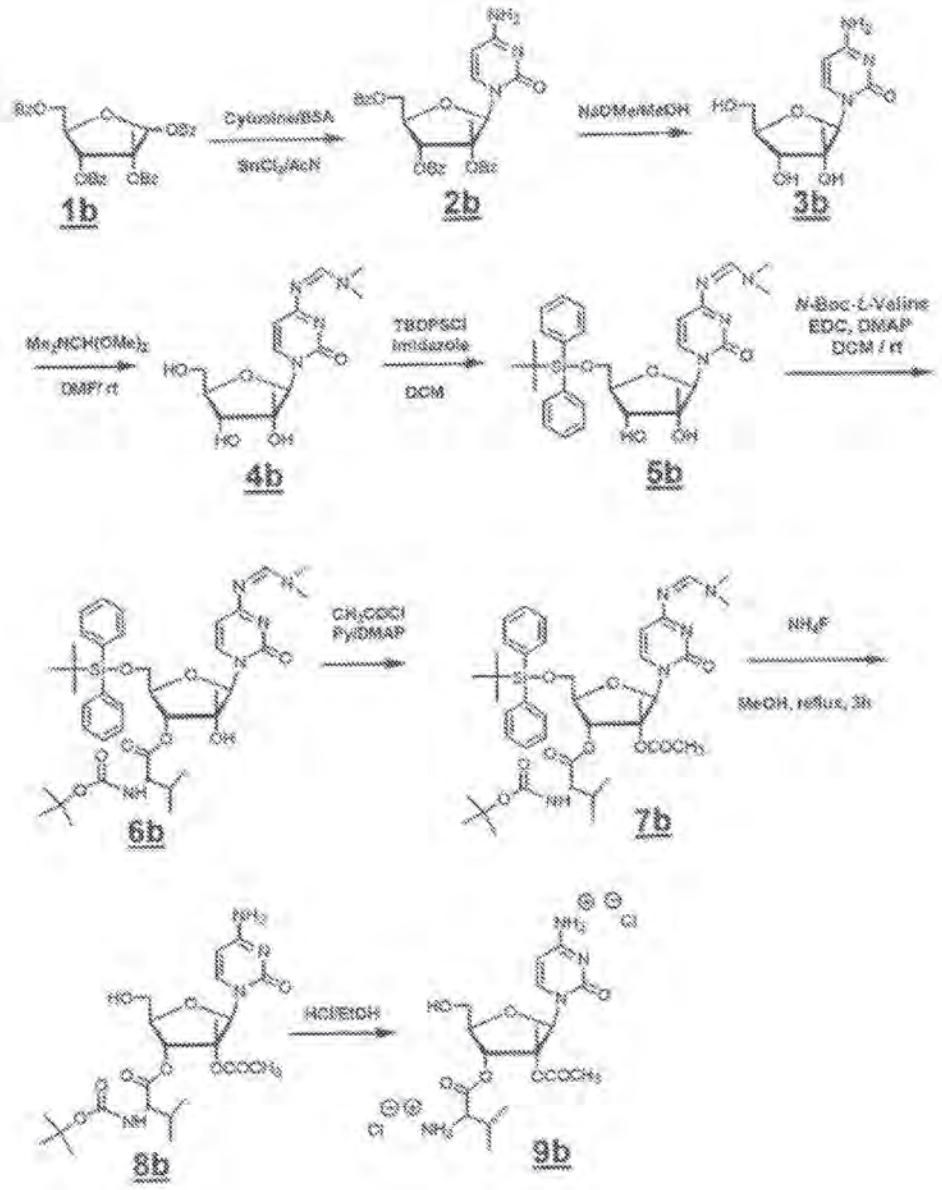
Gilead Exhibit 2015
PGR2023-00046 - Page 00995

Figure 6



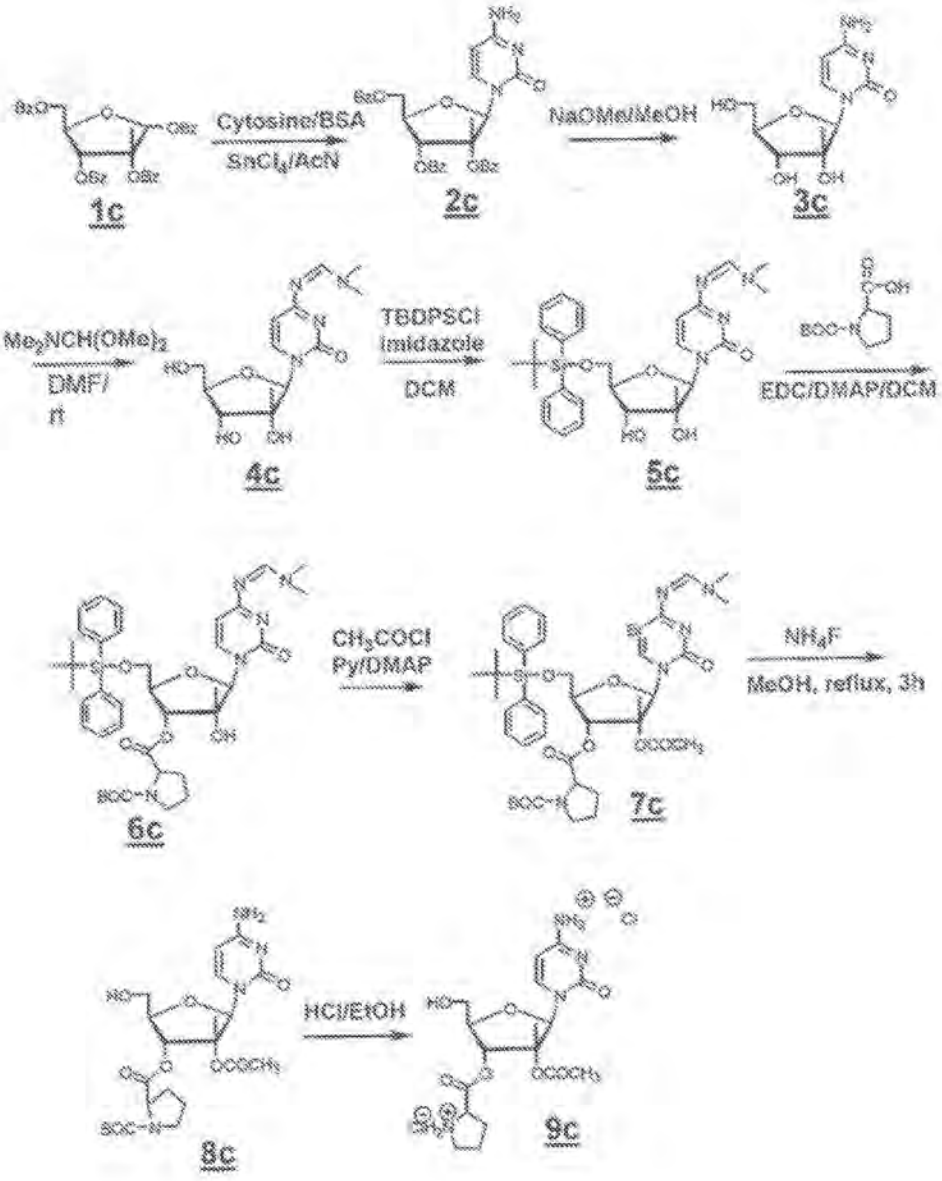
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PGR2023-00046 - Page 00996

Figure 7



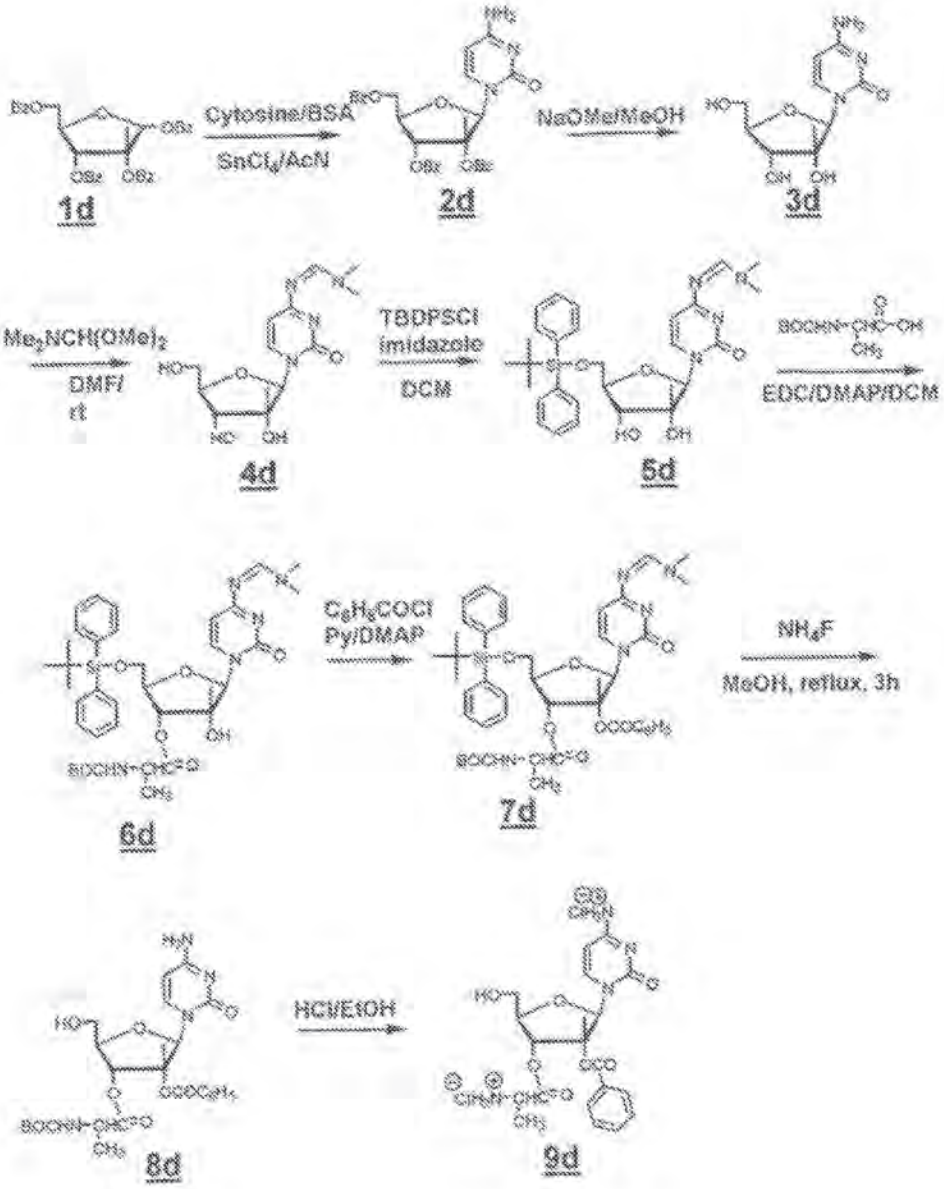
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PGR2023-00046 - Page 00997

Figure 8



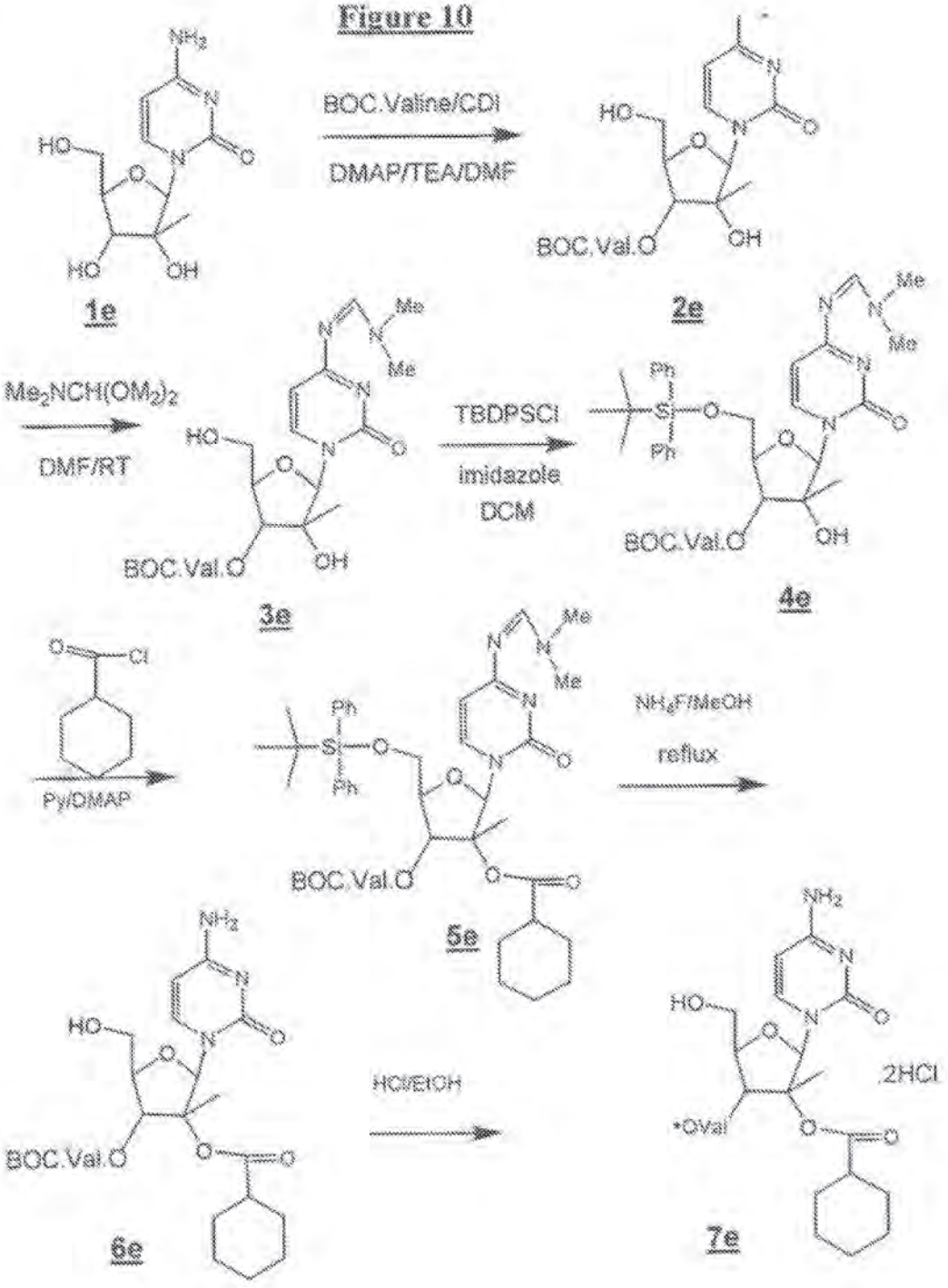
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PGR2023-00046 - Page 00998

Figure 9



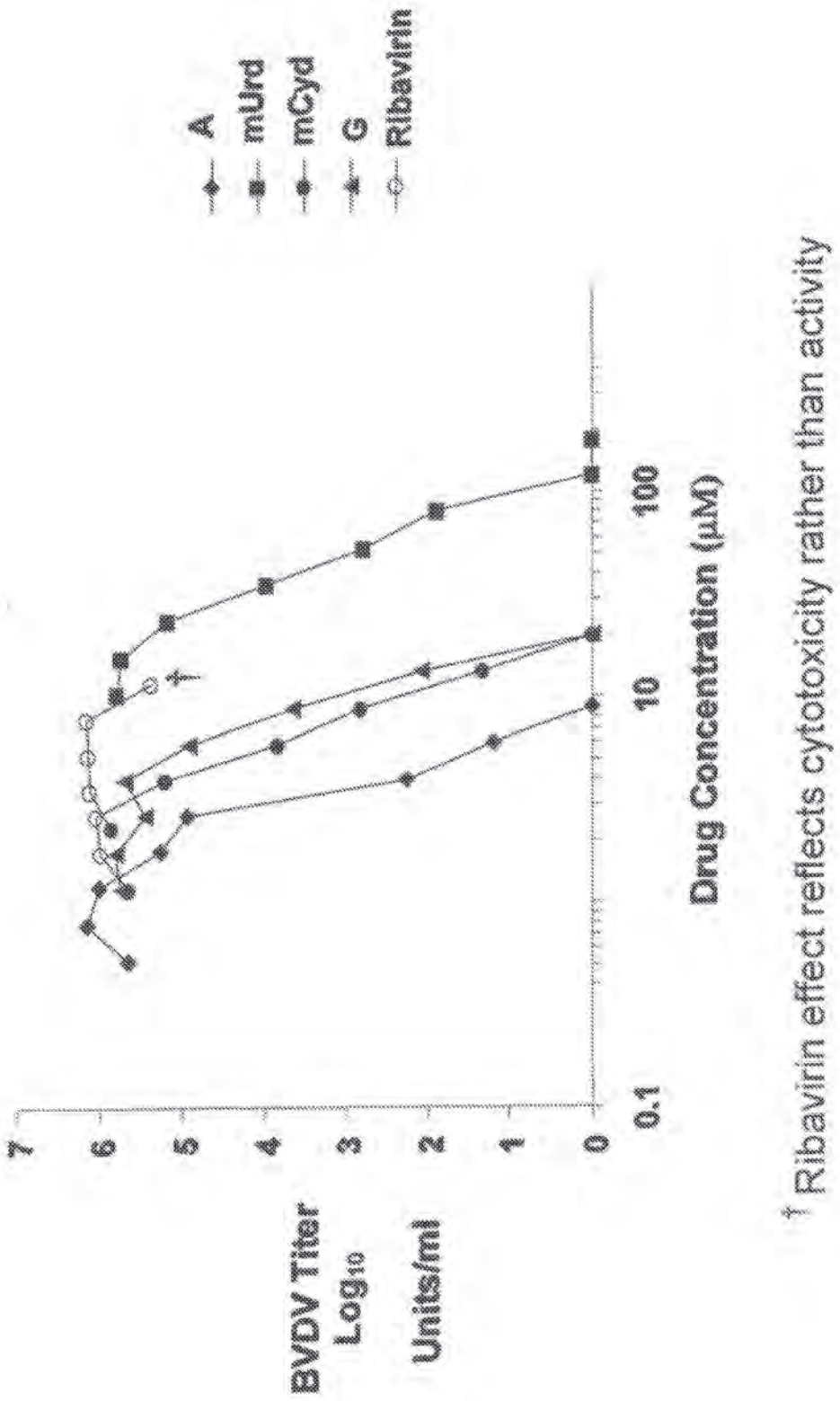
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PGR2023-00046 - Page 00999

Figure 10



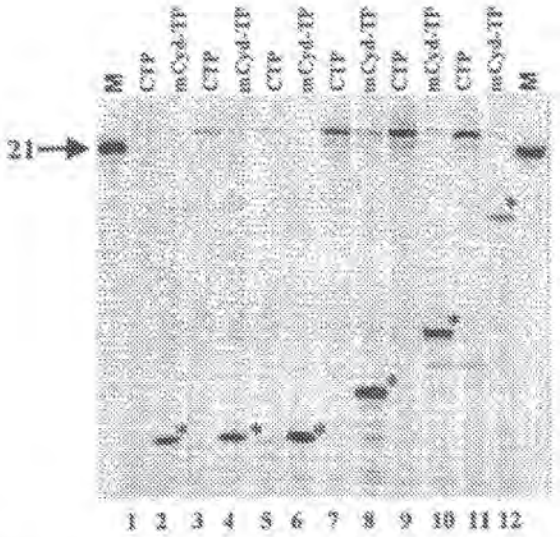
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PGR2023-00046 - Page 001000

Figure 11



Gilead Exhibit 2015
PGR2023-00046 - Page 001001

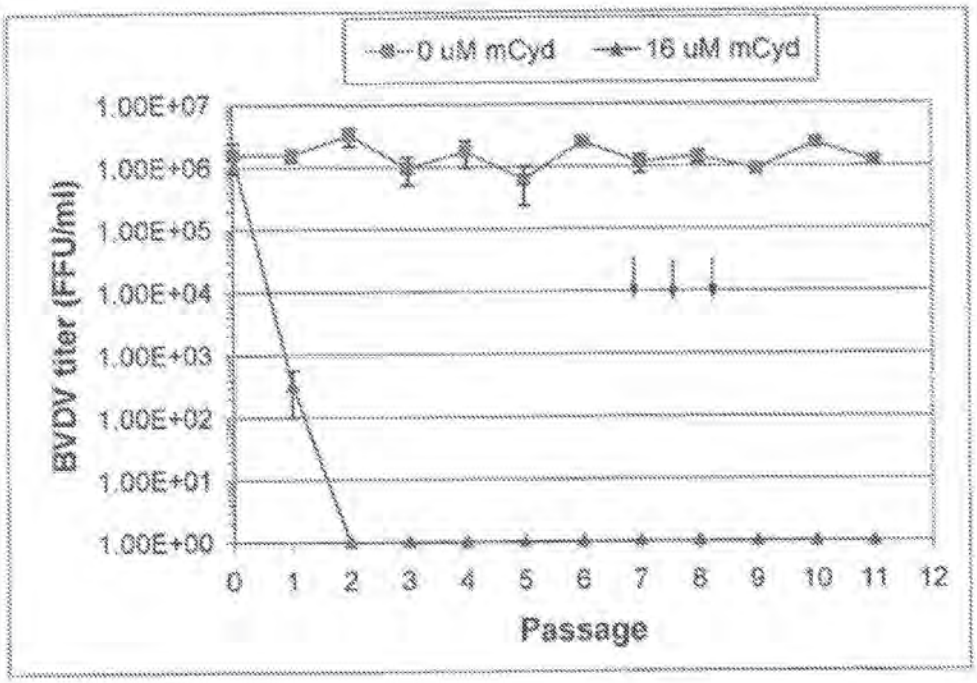
Figure 12



Lane #	template	⟶
1-2	(-21)	3' CAUAUGCUCUUAAUCUUUUCC
3-4	(-21)-7G	3' CAUAUGGUCUUAAUCUUUUCC
5-6	(-21)-9G	3' CAUAUGCUGUUAAUCUUUUCC
7-8	(-21)-6C/7G	3' CAUAUCGUCUUAAUCUUUUCC
9-10	(-21)-6C/9G	3' CAUAUCCUGUUAAUCUUUUCC
11-12	(-21)-6C/15G	3' CAUAUCCUCUUAAUGUUUUCC

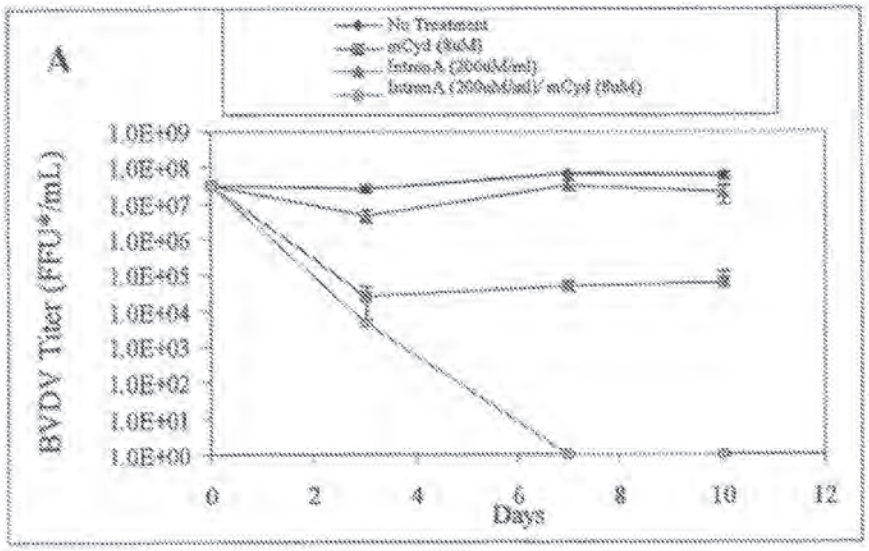
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PGR2023-00046 - Page 001002

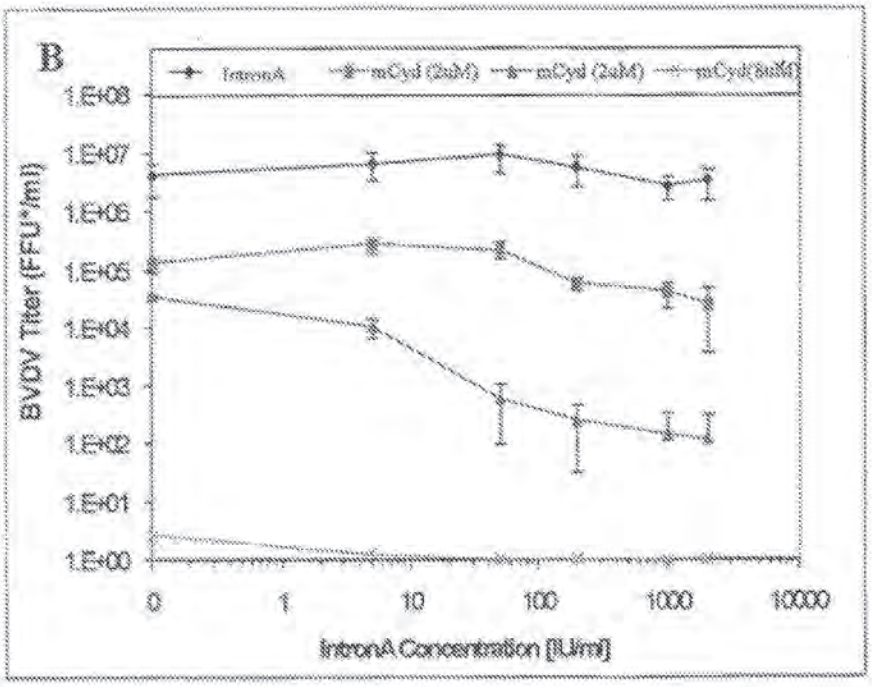
Figure 13



Gilead Exhibit 2015
PGR2023-00046 - Page 001003

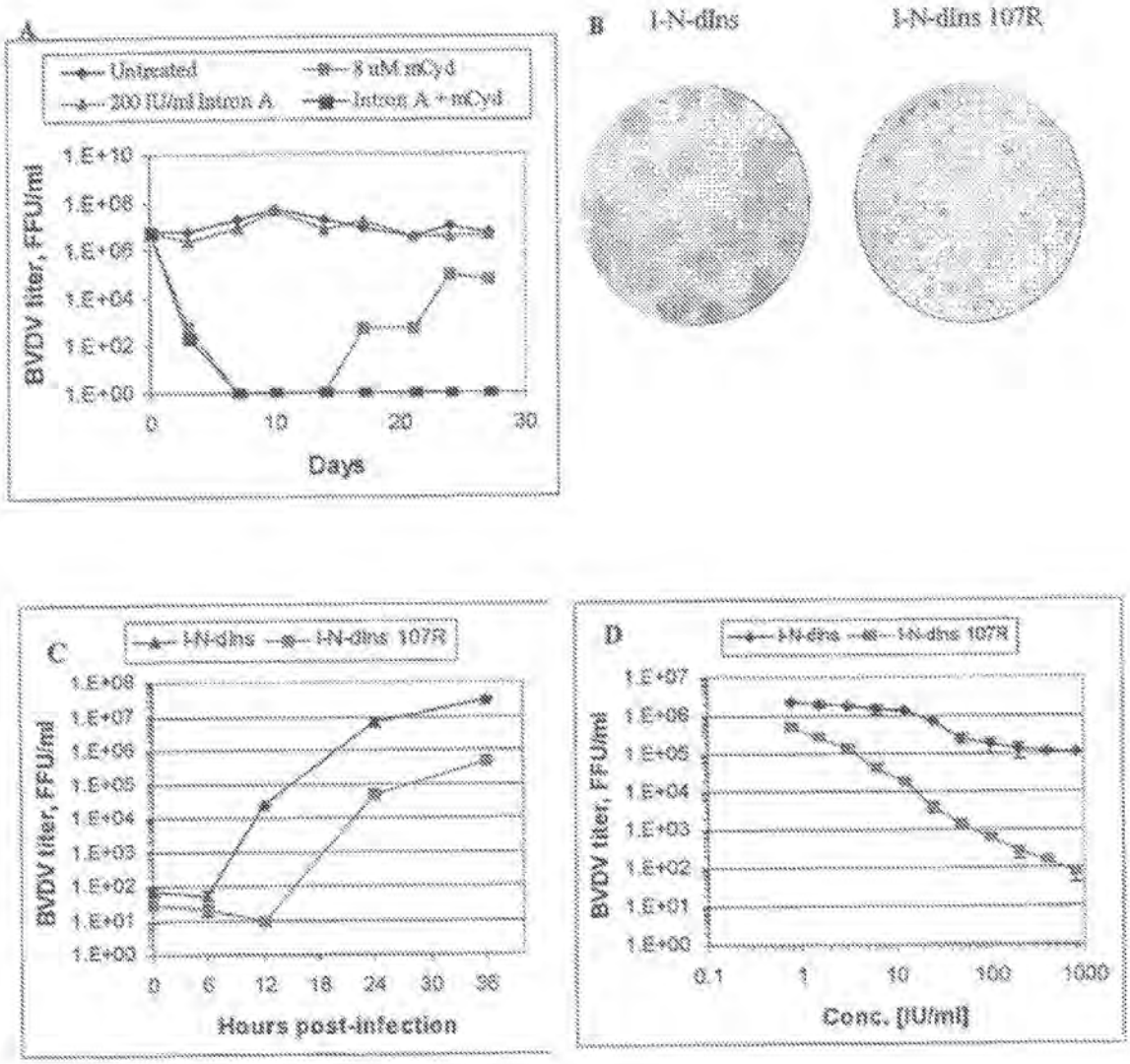
Figure 14





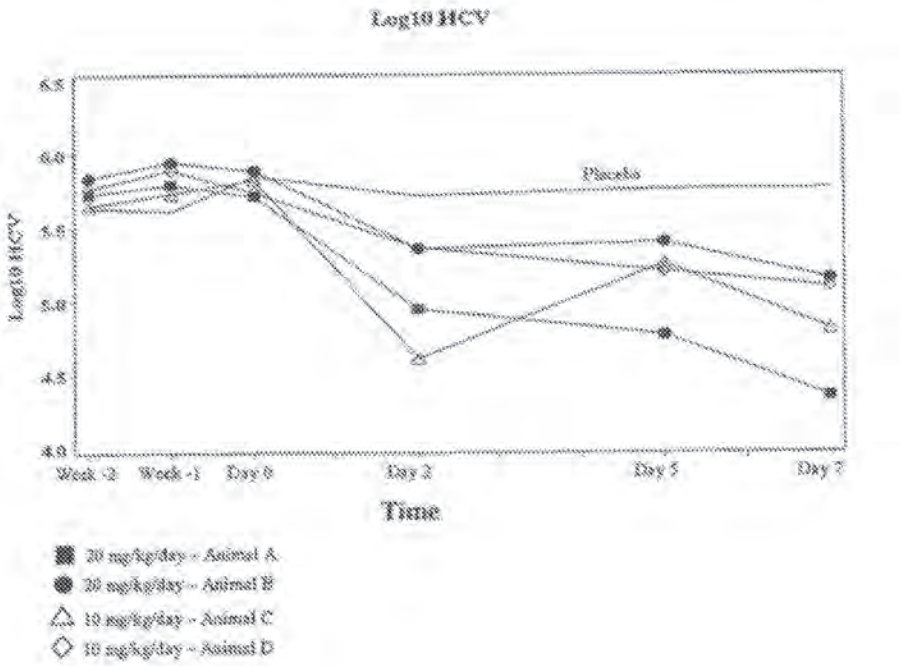
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PGR2023-00046 - Page 001004

Figure 15



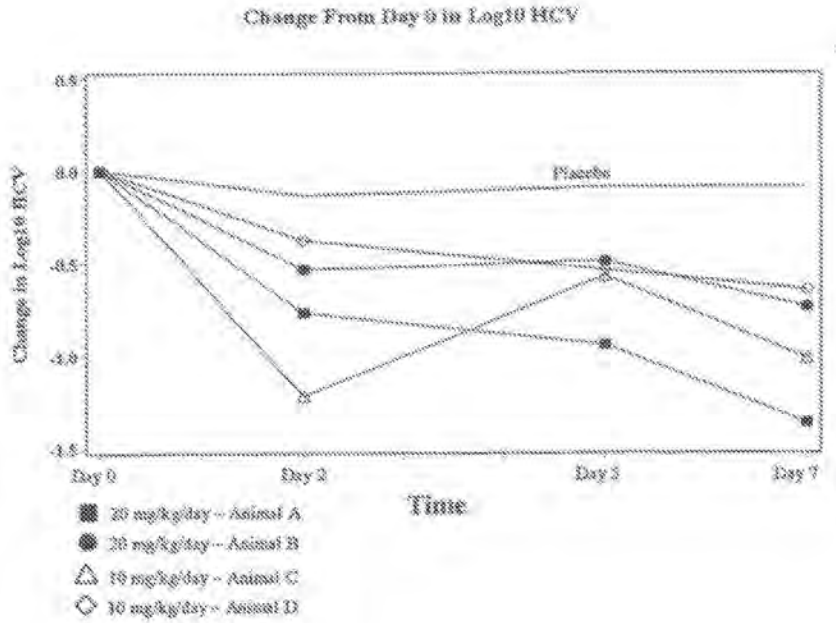
Gilead Exhibit 2015
PGR2023-00046 - Page 001005

Figure 16



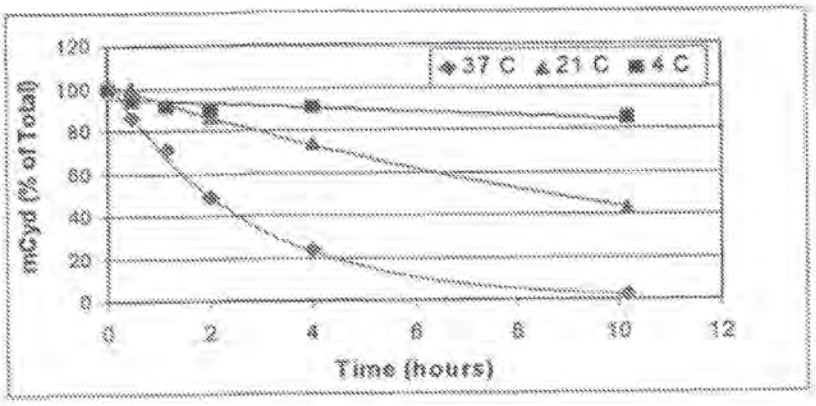
Gilead Exhibit 2015
PGR2023-00046 - Page 001006

Figure 17



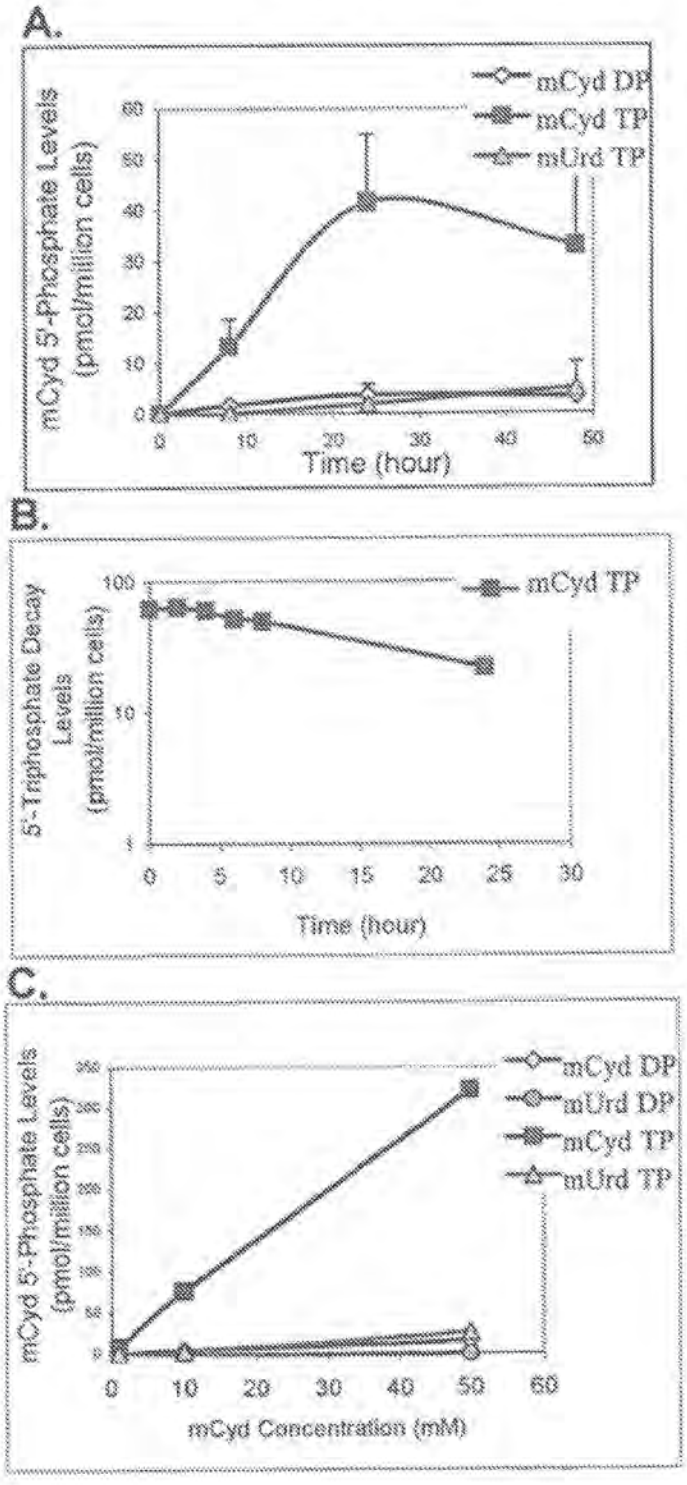
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PGR2023-00046 - Page 001007

Figure 18



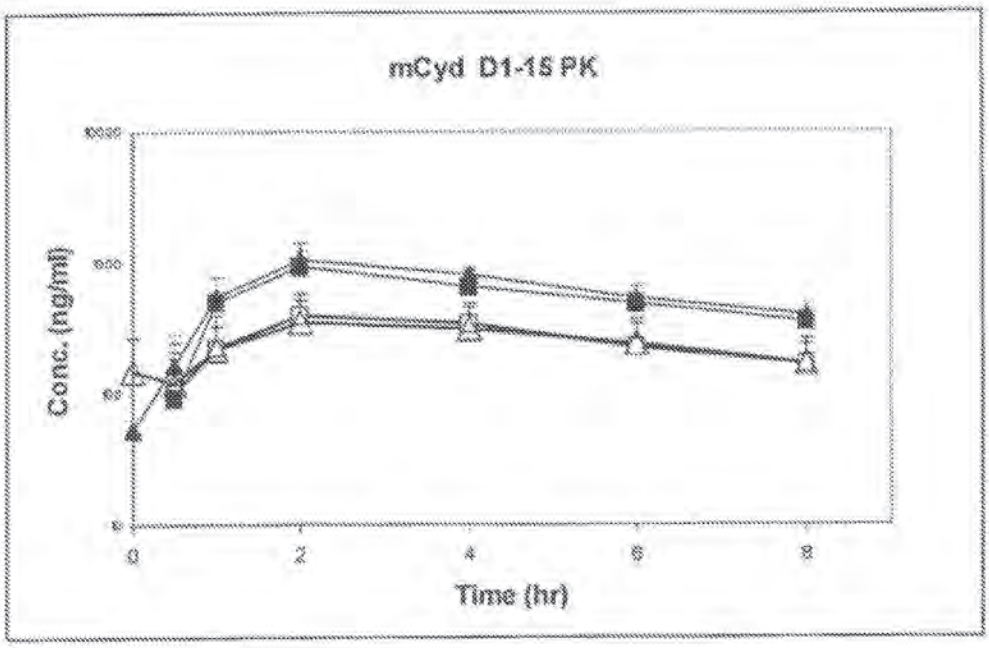
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PGR2023-00046 - Page 001008

Figure 19



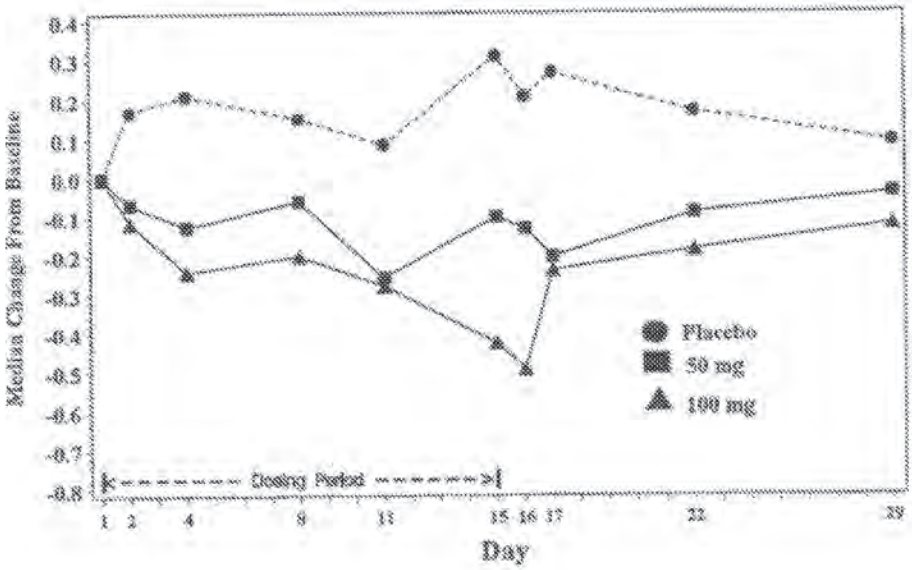
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PGR2023-00046 - Page 001009

Figure 20



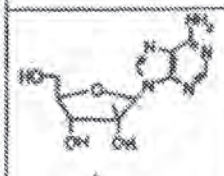
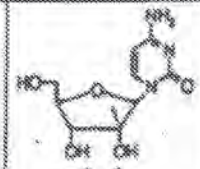
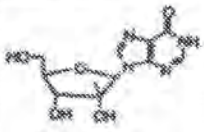
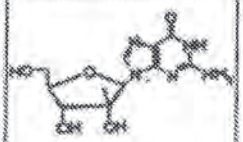
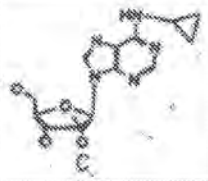
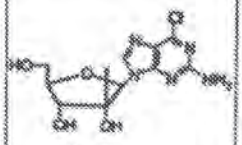
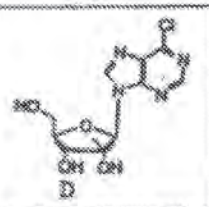
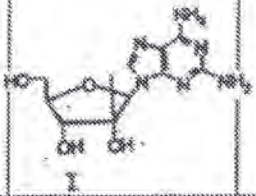
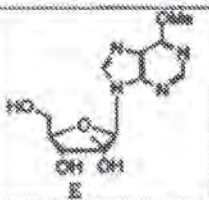
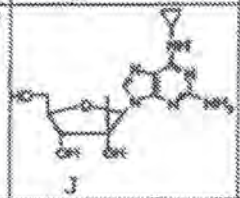
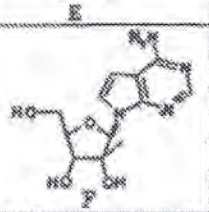
Gilead Exhibit 2015
PGR2023-00046 - Page 001010

Figure 21



Gilead Exhibit 2015
PGR2023-00046 - Page 001011

Figure 22

Compound	EC50 (μM)		CC50 (μM)		Compound	EC50 (μM)		CC50 (μM)	
	4.11.03	other	4.11.03	other		4.11.03	other	4.11.03	other
 A	0.5		7.4		 mCyd	1.5	8.9 0.7	50	49 42
 β	86	46	>250	>250	 G	3.4	1.6	110	71
 C	38.6	27 30	>250	>250	 H		0.6		87
 D	0.5	<0.5 0.5	>62.5*	77 >62.5*	 I	3.7	2.9	>62.5*	>62.5*
 E	9.8	6.7 7.5	>250	>250	 J	73		>250	
 P		8.9 0.8		225 >250					

* Not tested at higher concentrations

Gilead Exhibit 2015
PGR2023-00046 - Page 001012

Electronic Acknowledgement Receipt

EFS ID:	7531183
Application Number:	12053015
International Application Number:	
Confirmation Number:	3454
Title of Invention:	NUCLEOSIDE PHOSPHORAMIDATE PRODRUGS
First Named Inventor/Applicant Name:	MICHAEL JOSEPH SOFIA
Customer Number:	23552
Filer:	Daniel R. Evans/AMY ALBA
Filer Authorized By:	Daniel R. Evans
Attorney Docket Number:	60137.0034USU1
Receipt Date:	30-APR-2010
Filing Date:	21-MAR-2008
Time Stamp:	20:19:40
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Foreign Reference	WO2004003000_p1to210.pdf	18759475 61f47b03bb4807172 0b384d585ce5549df 9d512	no	210

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Sofia, et al.	Examiner:	Lewis, Patrick T
Serial No.:	12/053,015	Group Art Unit:	1623
Filed:	March 21, 2008	Docket No.:	60137.0034USU1
Title:	NUCLEOSIDE PHOSPHORAMIDATE PRODRUGS		

INFORMATION DISCLOSURE STATEMENT (37 C.F.R. § 1.97(b))

Director for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Dear Sir:

With regard to the above-identified application, the items of information listed on the enclosed Form 1449 are brought to the attention of the Examiner.

This statement should be considered because it is submitted before the mailing date of a first Office Action on-the-merits. Accordingly, no fee is due for consideration of the items listed on the enclosed Form 1449.

No representation is made that a reference is "prior art" within the meaning of 35 U.S.C. §§ 102 and 103 and Applicants reserve the right, pursuant to 37 C.F.R. § 1.131 or otherwise, to establish that the reference(s) are not "prior art." Moreover, Applicants do not represent that a reference has been thoroughly reviewed or that any relevance of any portion of a reference is intended.

Consideration of the items listed is respectfully requested. Pursuant to the provisions of M.P.E.P. 609, it is requested that the Examiner return a copy of the attached Form 1449, marked as being considered and initialed by the Examiner, to the undersigned with the next official communication.

Please charge any additional fees or credit any overpayment to Deposit Account No. 13-2725.

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PATENT TRADEMARK OFFICE

Respectfully submitted,
MERCHANT & GOULD P.C.
P.O. Box 2903
Minneapolis, Minnesota 55402-0903
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/Daniel R. Evans/
Daniel R. Evans, Ph.D.
Reg. No. 55,868

4538304v2

Date Submitted: April 30, 2010

Sheet 1 of 1

FORM 1449* INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION (Use several sheets if necessary)	Docket Number: 60137.0034USU1	Application Number: 12/053,015
	Applicant: Sofia	
	Filing Date: March 21, 2008	Group Art Unit: 1623

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	6475985	11/05/2002	Wagner				
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	WO2003/000713	01/03/2003	PCT				
	WO2005/003147	01/13/2005	PCT				
	WO2005/012327	02/10/2005	PCT				
	WO2006/012078	02/02/2006	PCT				
	WO2006/065335	06/22/2006	PCT				
	WO2007/020193	02/22/2007	PCT				
	WO2007/095269	08/23/2007	PCT				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
		Gunic, "6-Hydrazinopurine 2'-methyl ribonucleosides and their 5'monophosphate prodrugs as potent hepatitis C virus inhibitors" Bioorg. & Med. Chem.Letters, vol. 17, no. 9, pages 2456-2458, February 14, 2007
		International Search Report of International PCT application no. PCT/US2008/058183 mailed March 31, 2010
		International Preliminary Examination Report of International PCT application no. PCT/US2008/058183 issued April 7, 2010

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EXAMINER	DATE CONSIDERED

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Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

4547922v1

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EFS ID:	7531262
Application Number:	12053015
International Application Number:	
Confirmation Number:	3454
Title of Invention:	NUCLEOSIDE PHOSPHORAMIDATE PRODRUGS
First Named Inventor/Applicant Name:	MICHAEL JOSEPH SOFIA
Customer Number:	23552
Filer:	Daniel R. Evans/AMY ALBA
Filer Authorized By:	Daniel R. Evans
Attorney Docket Number:	60137.0034USU1
Receipt Date:	30-APR-2010
Filing Date:	21-MAR-2008
Time Stamp:	20:38:24
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

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Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
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New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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Respectfully submitted,
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/Daniel R. Evans/
Daniel R. Evans, Ph.D.
Reg. No. 55,868

4343431v1

Date submitted: May 4, 2010

FORM 1449* INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION (Use several sheets if necessary)	Docket Number: 60137.0034USU1	Application Number: 12/053,015
	Applicant: Sofia	
	Filing Date: March 21, 2008	Group Art Unit: 1623

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	5149794	09/22/1992	Yatvin				
	6777395	08/17/2004	Bhat				
	7217523	05/15/2007	Wagner				
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	20040266996	12/30/2004	Rabi				
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	WO2005/003147	01/13/2005	PCT				
	WO2006/012078	02/02/2006	PCT				
	WO2006/063149	06/15/2006	PCT				
	WO2006/065335	06/22/2006	PCT				
	WO2008/082601	07/10/2008	PCT				

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3764229v1

Gilead Exhibit 2015
PGR2023-00046 - Page 001023

FORM 1449* INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION (Use several sheets if necessary)	Docket Number: 60137.0034USU1	Application Number: 12/053,015
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
		Abraham, et al. "Synthesis, Biological Activity and Decomposition Studies of Amino Acid Phosphomonoester Amidates of Acyclovir" Nucleosides, Nucleotides and Nucleic Acids, 1997, 16(10), 2079-2092
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		Drontle, et al. "Designing a Pronucleotide Stratagem: Lessons from Amino Acid Phosphoramidates of Anticancer and Antiviral Pyrimidines" MiniReviews in Medicinal Chemistry, 2004, 4, 409-419
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PGR2023-00046 - Page 001024

FORM 1449* INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION (Use several sheets if necessary)	Docket Number: 60137.0034USU1	Application Number: 12/053,015
	Applicant: Sofia	
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		Kim, et al. "Monitoring the Intracellular Metabolism of Nucleoside Phosphoramidate Pronucleotides by ^{31}P NMR" Nucleosides, Nucleotides and Nucleic Acid, 2004, 23(1) 483-493
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		Song, et al. "Pharmacokinetics of Amino Acid Phosphoramidate Monoesters of Zidovudine in Rats" Antimicrobial Agents and Chemotherapy, 2002, 46(5), 1357-1363

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PGR2023-00046 - Page 001025

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	Applicant: Sofia	
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		Uckun, et al. "In Vivo Pharmacokinetics and Toxicity Profile of the Anti-HIV Agent Stampidine in Dogs and Feline Immunodeficiency Virus-infected Cats" Arzneim.-Forsch./Drug Research 2006, 56(2a), 176-192
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		Venkatachalam, et al. "Synthesis and metabolism of naphthyl substituted phosphoramidate derivatives of stavudine" Bioorganic and Medicinal Chemistry, 2006, 14, 5161-5177
		Venkatachalam, et. Al "Rational Drug Design of Multifunctional Phosphoramidate Substituted Nucleoside Analogs Current Pharmaceutical Design, 2004, 10 (15), 1713-1726
		Wagner, et al. "Antiviral Nucleoside Drug Delivery via Amino Acid Phosphoramidates', Nucleosides, Nucleotides and Nucleic Acids" Nucleosides, Nucleotides and nucleic Acids, 1999, 18(4), 913-918
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PGR2023-00046 - Page 001026

Electronic Acknowledgement Receipt

EFS ID:	7544412
Application Number:	12053015
International Application Number:	
Confirmation Number:	3454
Title of Invention:	NUCLEOSIDE PHOSPHORAMIDATE PRODRUGS
First Named Inventor/Applicant Name:	MICHAEL JOSEPH SOFIA
Customer Number:	23552
Filer:	Daniel R. Evans/AMY ALBA
Filer Authorized By:	Daniel R. Evans
Attorney Docket Number:	60137.0034USU1
Receipt Date:	04-MAY-2010
Filing Date:	21-MAR-2008
Time Stamp:	11:50:44
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
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40	NPL Documents	Lehsten_2002v2.pdf	229214 83a1d16e9dae15dad8ff0a52dd49c736411 0854	no	4
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41	NPL Documents	Mcguigan_1996v2.pdf	521635 1b9f4b0de0d0d84147cf25a9d5b9266a0a6 206377	no	6
Warnings:					
Information:					
42	NPL Documents	Mcguigan_1998v2.pdf	386212 3f281762b4954163406ed7fb5688969236 1e43a7	no	7
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43	NPL Documents	McIntee_1997v2.pdf	692920 02688e8fe6681110914a6a6aab78a7a485a 0109c	no	9
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44	NPL Documents	Siddiqui_1999v2.pdf	573561 1ee89d61c2026416cf491c8f875334ab1e1 25c8	no	7
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45	NPL Documents	Valette_1996v2.pdf	782944 1e4e0f01ed227e98E5bfa177c3ae934fe40a 0eb9	no	10
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46	NPL Documents	Venkatachalam_2004v2.pdf	903736 d1e44479749d894e6e8894560d8b6c015270 690fc1	no	14

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47	NPL Documents	Wagner_1999v2.pdf	5439842	no	8
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48	NPL Documents	Congiatu_2007v2.pdf	221633	no	5
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		Total Files Size (in bytes):	66992436		

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New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Sofia, et al.	Examiner:	Lewis, Patrick T
Serial No.:	12/053,015	Group Art Unit:	1623
Filed:	March 21, 2008	Docket No.:	60137.0034USU1
Title:	NUCLEOSIDE PHOSPHORAMIDATE PRODRUGS		

INFORMATION DISCLOSURE STATEMENT (37 C.F.R. § 1.97(b))

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Dear Sir:

With regard to the above-identified application, the items of information listed on the enclosed Form 1449 are brought to the attention of the Examiner.

This statement should be considered because it is submitted before the mailing date of a first Office Action on-the-merits. Accordingly, no fee is due for consideration of the items listed on the enclosed Form 1449.

Applicants note that the references listed on the attached PTO 1449 form are disclosed in the application text of the pending application.

No representation is made that a reference is "prior art" within the meaning of 35 U.S.C. §§ 102 and 103 and Applicants reserve the right, pursuant to 37 C.F.R. § 1.131 or otherwise, to establish that the reference(s) are not "prior art." Moreover, Applicants do not represent that a reference has been thoroughly reviewed or that any relevance of any portion of a reference is intended.

Consideration of the items listed is respectfully requested. Pursuant to the provisions of M.P.E.P. 609, it is requested that the Examiner return a copy of the attached Form 1449, marked as being considered and initialed by the Examiner, to the undersigned with the next official communication.

Please charge any additional fees or credit any overpayment to Deposit Account No. 13-2725.

23552
PATENT TRADEMARK OFFICE

Respectfully submitted,
MERCHANT & GOULD P.C.
P.O. Box 2903
Minneapolis, Minnesota 55402-0903
(612) 332-5300

/Daniel R. Evans/
Daniel R. Evans, Ph.D.
Reg. No. 55,868

4311682v1

FORM 1449* INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION (Use several sheets if necessary)	Docket Number: 60137.0034USU1	Application Number: 12/053,015
	Applicant: Sofia	
	Filing Date: March 21, 2008	Group Art Unit: 1623

U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5192549	03-09-1993	Barenolz			
	5376380	12-27-1994	Kikuchi			
	6060080	05-09-2000	Kikuchi			
	6132763	10-17-2000	Fisher			
	6180134	01-30-2001	Zalipsky			
	6784166	08-31-2004	Devos			
	20030187018	10-02-2003	Llinas-Brunet			
	20040229840	11-18-2004	Bhat			
	20050009737	01-13-2005	Clark			
	2005154056	07-14-2005	Yang			
	20050267018	12-01-2005	Blatt			
	20060040890	02-23-2006	Martin			
	20060040927	02-23-2006	Blake			
	20060166964	07-27-2006	Hudyma			
	20060194749	08-31-2006	Keicher			
	20060241064	10-26-2006	Roberts			
	20060276511	12-07-2006	Serrano-Wu			
	20060293306	12-28-2006	Beaulieu			
	20070275947	11-29-2007	Bergstrom			

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PATENT TRADEMARK OFFICE

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form for next communication to the Applicant.

*Substitute Disclosure Statement Form (PTO-1449)
4311635v1

Gilead Exhibit 2015
PGR2023-00046 - Page 001035

FORM 1449* INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION (Use several sheets if necessary)	Docket Number: 60137.0034USU1	Application Number: 12/053,015
	Applicant: Sofia	
	Filing Date: March 21, 2008	Group Art Unit: 1623

			FOREIGN PATENT DOCUMENTS				
	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	WO 97/12033	04-03-1997	PCT				
	WO 2000006529	02-10-2000	PCT				
	WO 2003006490	01-23-2003	PCT				
	WO 2003010141	02-06-2003	PCT				
	WO 2003037895	05-08-2003	PCT				
	WO 200364456	08-07-2003	PCT				
	WO 2003101993	12-11-2003	PCT				
	WO 2004002940	01-08-2004	PCT				
	WO 2004002944	01-08-2004	PCT				
	WO 2004002977	01-08-2004	PCT				
	WO 2004014313	02-19-2004	PCT				
	WO 2004014852	02-19-2004	PCT				
	WO 2004035571	04-29-2004	PCT				
	WO 2004041201	05-21-2004	PCT				
	WO 2004065367	08-05-2004	PCT				
	WO 2004094452	11-04-2004	PCT				
	WO 2004096210	11-11-2004	PCT				
	WO 2005028502	03-31-2005	PCT				
	WO 2005037214	04-28-2005	PCT				
	WO 2005067900	07-28-2005	PCT				

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PATENT TRADEMARK OFFICE

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form for next communication to the Applicant.

*Substitute Disclosure Statement Form (PTO-1449)
4311635v1

Gilead Exhibit 2015
PGR2023-00046 - Page 001036

FORM 1449* INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION (Use several sheets if necessary)	Docket Number: 60137.0034USU1	Application Number: 12/053,015
	Applicant: Sofia	
	Filing Date: March 21, 2008	Group Art Unit: 1623

	WO 2005095403	10-13-2005	PCT				
	WO 2005103045	11-03-2005	PCT				
	WO 2005123087	12-29-2005	PCT				
	WO 2006020082	02-23-2006	PCT				
	WO 2006035061	04-06-2006	PCT				
	WO 2006065590	06-22-2006	PCT				
	WO 2006093801	09-08-2006	PCT				
	WO 2006100310	09-28-2006	PCT				
	WO 2006120251	11-16-2006	PCT				
	WO 2006120252	11-16-2006	PCT				
	WO 200702602	01-04-2007	PCT				
	WO 2007014920	02-08-2007	PCT				
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	WO 2007014922	02-08-2007	PCT				
	WO 2007014925	02-08-2007	PCT				
	WO 2007014926	02-08-2007	PCT				
	WO 2007015824	02-08-2007	PCT				
	WO 2007039142	04-12-2007	PCT				
	WO 2007039145	04-12-2007	PCT				
	WO 2007070556	06-21-2007	PCT				
	WO 2007076034	07-05-2007	PCT				
	WO 2007088148	08-09-2007	PCT				
	WO 2007092000	08-16-2007	PCT				
	WO 2007093901	08-23-2007	PCT				
	EP 1881001	01-23-2008	EP				

23552
PATENT TRADEMARK OFFICE

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form for next communication to the Applicant.

*Substitute Disclosure Statement Form (PTO-1449)
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Gilead Exhibit 2015
PGR2023-00046 - Page 001037

FORM 1449* INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION (Use several sheets if necessary)	Docket Number: 60137.0034USU1	Application Number: 12/053,015
	Applicant: Sofia	
	Filing Date: March 21, 2008	Group Art Unit: 1623

	WO 2008010921	01-24-2008	PCT				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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		Koonin, E.V. and Dolja, V.V., Crit. Rev. Biochem. Molec. Biol. 1993, 28, 375-430

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PATENT TRADEMARK OFFICE

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form for next communication to the Applicant.

*Substitute Disclosure Statement Form (PTO-1449)
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Gilead Exhibit 2015
PGR2023-00046 - Page 001038

FORM 1449* INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION (Use several sheets if necessary)	Docket Number: 60137.0034USU1	Application Number: 12/053,015
	Applicant: Sofia	
	Filing Date: March 21, 2008	Group Art Unit: 1623

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		Zhong, J. Virol., 1998, 72, 9365-9369

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PATENT TRADEMARK OFFICE

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form for next communication to the Applicant.

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4311635v1

Gilead Exhibit 2015
PGR2023-00046 - Page 001039

Electronic Acknowledgement Receipt

EFS ID:	7552629
Application Number:	12053015
International Application Number:	
Confirmation Number:	3454
Title of Invention:	NUCLEOSIDE PHOSPHORAMIDATE PRODRUGS
First Named Inventor/Applicant Name:	MICHAEL JOSEPH SOFIA
Customer Number:	23552
Filer:	Daniel R. Evans/AMY ALBA
Filer Authorized By:	Daniel R. Evans
Attorney Docket Number:	60137.0034USU1
Receipt Date:	05-MAY-2010
Filing Date:	21-MAR-2008
Time Stamp:	10:16:03
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Filed (SB/08)	12053015_IDS_PTO1449_spec_60137_0034usu1.pdf	128485 5a0f6ed4c862edb83ce4bc3e791fe795baac0d76	no	6

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New Applications Under 35 U.S.C. 111

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New International Application Filed with the USPTO as a Receiving Office

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Electronic Acknowledgement Receipt	
EFS ID:	7553284
Application Number:	12053015
International Application Number:	
Confirmation Number:	3454
Title of Invention:	NUCLEOSIDE PHOSPHORAMIDATE PRODRUGS
First Named Inventor/Applicant Name:	MICHAEL JOSEPH SOFIA
Customer Number:	23552
Filer:	Daniel R. Evans/AMY ALBA
Filer Authorized By:	Daniel R. Evans
Attorney Docket Number:	60137.0034USU1
Receipt Date:	05-MAY-2010
Filing Date:	21-MAR-2008
Time Stamp:	11:29:06
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
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9	Foreign Reference	WO2007014922.pdf	6277008 7d37ba1a2acdc1c17eee758dfe39eb486bdbc971	no	162
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Electronic Acknowledgement Receipt

EFS ID:	7553892
Application Number:	12053015
International Application Number:	
Confirmation Number:	3454
Title of Invention:	NUCLEOSIDE PHOSPHORAMIDATE PRODRUGS
First Named Inventor/Applicant Name:	MICHAEL JOSEPH SOFIA
Customer Number:	23552
Filer:	Daniel R. Evans/AMY ALBA
Filer Authorized By:	Daniel R. Evans
Attorney Docket Number:	60137.0034USU1
Receipt Date:	05-MAY-2010
Filing Date:	21-MAR-2008
Time Stamp:	12:19:49
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	NPL Documents	Bartenschlager_1993.pdf	950144 0d2e9fd0ff653885266e8ccd481753e(072d9aac3	no	10

Warnings:	
Information:	

2	NPL Documents	Bartenschalger_1994.pdf	1719880 3a4fd0289e84bf3cd8b6b1d7c0477c1c2c06 2093	no	11
Warnings:					
Information:					
3	NPL Documents	Bazan_1989.pdf	269440 6d0d9867abb7470089aa490daa17e6774fe9 112a8	no	3
Warnings:					
Information:					
4	NPL Documents	Beaulieu_2004.pdf	3335797 7d07d88f10c0e185c7f5c01d5f2fa210877d 3d6	no	13
Warnings:					
Information:					
5	NPL Documents	Behrens_1996.pdf	1186816 98c09b665aeabee8408204e1c0590b77f4 1231	no	11
Warnings:					
Information:					
6	NPL Documents	Calisher_1989.pdf	1421910 ebda3b24de0adefef6d28dc5d3e272c94859 787b	no	7
Warnings:					
Information:					
7	NPL Documents	Eckart_1993.pdf	639775 5c6f50f2fed80f9c34bee594cf7fdb759ca8 40be	no	8
Warnings:					
Information:					
8	NPL Documents	Failla_1994.pdf	736766 63ad64aa5068991c3c82aee5e0a6b6eedc7 747e	no	8
Warnings:					
Information:					
9	NPL Documents	Fields_1996.pdf	3250008 eb81f10fd94a2261904e0638e65db78361 f4ec3	no	31
Warnings:					
Information:					
10	NPL Documents	Gorbalenya_1988.pdf	129448 71e9f03791c1be2043f75cf348882cca4df1 258	no	1
Warnings:					
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