Table XII-13.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XII-13-1** | $^i$Pr | H | H | H | Et | $N_3$ | F | F | OH | H | H |
| **XII-13-2** | $^i$Pr | H | H | $CH_3$ | Et | $N_3$ | F | F | OH | H | H |
| **XII-13-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | Et | $N_3$ | F | F | OH | H | H |
| **XII-13-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | Et | $N_3$ | F | F | OH | H | H |
| **XII-13-5** | $^i$Pr | H | H | $CH_2Ph$ | Et | $N_3$ | F | F | OH | H | H |
| **XII-13-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | Et | $N_3$ | F | F | OH | H | H |
| **XII-13-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | Et | $N_3$ | F | F | OH | H | H |
| **XII-13-8** | $^i$Pr | * | H | * | Et | $N_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XII-14.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XII-14-1** | $^t$Bu | H | H | H | Et | $N_3$ | F | F | OH | H | H |
| **XII-14-2** | $^t$Bu | H | H | $CH_3$ | Et | $N_3$ | F | F | OH | H | H |
| **XII-14-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | Et | $N_3$ | F | F | OH | H | H |
| **XII-14-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | Et | $N_3$ | F | F | OH | H | H |
| **XII-14-5** | $^t$Bu | H | H | $CH_2Ph$ | Et | $N_3$ | F | F | OH | H | H |
| **XII-14-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | Et | $N_3$ | F | F | OH | H | H |
| **XII-14-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | Et | $N_3$ | F | F | OH | H | H |
| **XII-14-8** | $^t$Bu | * | H | * | Et | $N_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XII-15.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|



Gilead Exhibit 2024
PGR2023-00046 - Page 00289

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XII-15-1** | Ph | H | H | H | Et | $N_3$ | F | F | OH | H | H |
| **XII-15-2** | Ph | H | H | $CH_3$ | Et | $N_3$ | F | F | OH | H | H |
| **XII-15-3** | Ph | H | H | $CH(CH_3)_2$ | Et | $N_3$ | F | F | OH | H | H |
| **XII-15-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | Et | $N_3$ | F | F | OH | H | H |
| **XII-15-5** | Ph | H | H | $CH_2Ph$ | Et | $N_3$ | F | F | OH | H | H |
| **XII-15-6** | Ph | H | H | $CH_2$-indol-3-yl | Et | $N_3$ | F | F | OH | H | H |
| **XII-15-7** | Ph | H | H | $CH_2CH_2SCH_3$ | Et | $N_3$ | F | F | OH | H | H |
| **XII-15-8** | Ph | * | H | * | Et | $N_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XII-16.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XII-16-1** | p-Me-Ph | H | H | H | Et | $N_3$ | F | F | OH | H | H |
| **XII-16-2** | p-Me-Ph | H | H | $CH_3$ | Et | $N_3$ | F | F | OH | H | H |
| **XII-16-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | Et | $N_3$ | F | F | OH | H | H |
| **XII-16-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | $N_3$ | F | F | OH | H | H |
| **XII-16-5** | p-Me-Ph | H | H | $CH_2Ph$ | Et | $N_3$ | F | F | OH | H | H |
| **XII-16-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | Et | $N_3$ | F | F | OH | H | H |
| **XII-16-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | Et | $N_3$ | F | F | OH | H | H |
| **XII-16-8** | p-Me-Ph | * | H | * | Et | $N_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XII-17.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XII-17-1** | p-F-Ph | H | H | H | Et | $N_3$ | F | F | OH | H | H |
| **XII-17-2** | p-F-Ph | H | H | $CH_3$ | Et | $N_3$ | F | F | OH | H | H |
| **XII-17-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | Et | $N_3$ | F | F | OH | H | H |
| **XII-17-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | $N_3$ | F | F | OH | H | H |
| **XII-17-5** | p-F-Ph | H | H | $CH_2Ph$ | Et | $N_3$ | F | F | OH | H | H |
| **XII-17-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | Et | $N_3$ | F | F | OH | H | H |
| **XII-17-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | Et | $N_3$ | F | F | OH | H | H |
| **XII-17-8** | p-F-Ph | * | H | * | Et | $N_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00290

Table XII-18.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XII-18-1** | p-Cl-Ph | H | H | H | Et | $N_3$ | F | F | OH | H | H |
| **XII-18-2** | p-Cl-Ph | H | H | $CH_3$ | Et | $N_3$ | F | F | OH | H | H |
| **XII-18-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | Et | $N_3$ | F | F | OH | H | H |
| **XII-18-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | $N_3$ | F | F | OH | H | H |
| **XII-18-5** | p-Cl-Ph | H | H | $CH_2Ph$ | Et | $N_3$ | F | F | OH | H | H |
| **XII-18-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | Et | $N_3$ | F | F | OH | H | H |
| **XII-18-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | Et | $N_3$ | F | F | OH | H | H |
| **XII-18-8** | p-Cl-Ph | * | H | * | Et | $N_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XII-19.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XII-19-1** | p-Br-Ph | H | H | H | Et | $N_3$ | F | F | OH | H | H |
| **XII-19-2** | p-Br-Ph | H | H | $CH_3$ | Et | $N_3$ | F | F | OH | H | H |
| **XII-19-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | Et | $N_3$ | F | F | OH | H | H |
| **XII-19-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | $N_3$ | F | F | OH | H | H |
| **XII-19-5** | p-Br-Ph | H | H | $CH_2Ph$ | Et | $N_3$ | F | F | OH | H | H |
| **XII-19-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | Et | $N_3$ | F | F | OH | H | H |
| **XII-19-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | Et | $N_3$ | F | F | OH | H | H |
| **XII-19-8** | p-Br-Ph | * | H | * | Et | $N_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XII-20.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ |
|---|---|---|---|---|---|---|---|---|---|---|
| **XII-20-1** | p-I-Ph | H | H | H | Et | $N_3$ | F | F | OH | H |
| **XII-20-2** | p-I-Ph | H | H | $CH_3$ | Et | $N_3$ | F | F | OH | H |
| **XII-20-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | Et | $N_3$ | F | F | OH | H |
| **XII-20-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | $N_3$ | F | F | OH | H |
| **XII-20-5** | p-I-Ph | H | H | $CH_2Ph$ | Et | $N_3$ | F | F | OH | H |
| **XII-20-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | Et | $N_3$ | F | F | OH | H |
| **XII-20-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | Et | $N_3$ | F | F | OH | H |
| **XII-20-8** | p-I-Ph | * | H | * | Et | $N_3$ | F | F | OH | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XII-21.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XII-21-1** | $CH_3$ | H | H | H | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-21-2** | $CH_3$ | H | H | $CH_3$ | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-21-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-21-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-21-5** | $CH_3$ | H | H | $CH_2Ph$ | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-21-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-21-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-21-8** | $CH_3$ | * | H | * | $^i$Pr | $N_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XII-22.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XII-22-1** | Et | H | H | H | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-22-2** | Et | H | H | $CH_3$ | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-22-3** | Et | H | H | $CH(CH_3)_2$ | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-22-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-22-5** | Et | H | H | $CH_2Ph$ | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-22-6** | Et | H | H | $CH_2$-indol-3-yl | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-22-7** | Et | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-22-8** | Et | * | H | * | $^i$Pr | $N_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XII-23.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XII-23-1** | $^i$Pr | H | H | H | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-23-2** | $^i$Pr | H | H | $CH_3$ | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-23-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-23-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-23-5** | $^i$Pr | H | H | $CH_2Ph$ | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-23-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-23-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-23-8** | $^i$Pr | * | H | * | $^i$Pr | $N_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00292

Table XII-24.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XII-24-1** | $^t$Bu | H | H | H | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-24-2** | $^t$Bu | H | H | $CH_3$ | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-24-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-24-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-24-5** | $^t$Bu | H | H | $CH_2Ph$ | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-24-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-24-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-24-8** | $^t$Bu | * | H | * | $^i$Pr | $N_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XII-25.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XII-25-1** | Ph | H | H | H | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-25-2** | Ph | H | H | $CH_3$ | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-25-3** | Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-25-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-25-5** | Ph | H | H | $CH_2Ph$ | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-25-6** | Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-25-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-25-8** | Ph | * | H | * | $^i$Pr | $N_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XII-26.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XII-26-1** | p-Me-Ph | H | H | H | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-26-2** | p-Me-Ph | H | H | $CH_3$ | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-26-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-26-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-26-5** | p-Me-Ph | H | H | $CH_2Ph$ | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-26-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-26-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-26-8** | p-Me-Ph | * | H | * | $^i$Pr | $N_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00293

Table XII-27.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XII-27-1** | p-F-Ph | H | H | H | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-27-2** | p-F-Ph | H | H | $CH_3$ | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-27-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-27-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-27-5** | p-F-Ph | H | H | $CH_2Ph$ | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-27-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-27-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-27-8** | p-F-Ph | * | H | * | $^i$Pr | $N_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XII-28.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XII-28-1** | p-Cl-Ph | H | H | H | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-28-2** | p-Cl-Ph | H | H | $CH_3$ | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-28-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-28-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-28-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-28-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-28-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-28-8** | p-Cl-Ph | * | H | * | $^i$Pr | $N_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XII-29.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XII-29-1** | p-Br-Ph | H | H | H | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-29-2** | p-Br-Ph | H | H | $CH_3$ | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-29-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-29-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-29-5** | p-Br-Ph | H | H | $CH_2Ph$ | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-29-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-29-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-29-8** | p-Br-Ph | * | H | * | $^i$Pr | $N_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00294

Table XII-30.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XII-30-1** | p-I-Ph | H | H | H | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-30-2** | p-I-Ph | H | H | $CH_3$ | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-30-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-30-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-30-5** | p-I-Ph | H | H | $CH_2Ph$ | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-30-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-30-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $N_3$ | F | F | OH | H | H |
| **XII-30-8** | p-I-Ph | * | H | * | $^i$Pr | $N_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XII-31.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XII-31-1** | $CH_3$ | H | H | H | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-31-2** | $CH_3$ | H | H | $CH_3$ | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-31-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-31-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-31-5** | $CH_3$ | H | H | $CH_2Ph$ | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-31-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-31-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-31-8** | $CH_3$ | * | H | * | $^n$Bu | $N_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XII-32.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XII-32-1** | Et | H | H | H | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-32-2** | Et | H | H | $CH_3$ | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-32-3** | Et | H | H | $CH(CH_3)_2$ | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-32-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-32-5** | Et | H | H | $CH_2Ph$ | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-32-6** | Et | H | H | $CH_2$-indol-3-yl | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-32-7** | Et | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-32-8** | Et | * | H | * | $^n$Bu | $N_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00295

Table XII-33.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XII-33-1** | $^i$Pr | H | H | H | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-33-2** | $^i$Pr | H | H | $CH_3$ | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-33-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-33-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-33-5** | $^i$Pr | H | H | $CH_2Ph$ | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-33-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-33-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-33-8** | $^i$Pr | * | H | * | $^n$Bu | $N_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XII-34.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XII-34-1** | $^t$Bu | H | H | H | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-34-2** | $^t$Bu | H | H | $CH_3$ | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-34-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-34-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-34-5** | $^t$Bu | H | H | $CH_2Ph$ | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-34-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-34-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-34-8** | $^t$Bu | * | H | * | $^n$Bu | $N_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XII-35.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XII-35-1** | Ph | H | H | H | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-35-2** | Ph | H | H | $CH_3$ | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-35-3** | Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-35-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-35-5** | Ph | H | H | $CH_2Ph$ | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-35-6** | Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-35-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-35-8** | Ph | * | H | * | $^n$Bu | $N_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00296

Table XII-36.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XII-36-1** | p-Me-Ph | H | H | H | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-36-2** | p-Me-Ph | H | H | $CH_3$ | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-36-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-36-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-36-5** | p-Me-Ph | H | H | $CH_2Ph$ | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-36-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-36-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-36-8** | p-Me-Ph | * | H | * | $^n$Bu | $N_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XII-37.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XII-37-1** | p-F-Ph | H | H | H | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-37-2** | p-F-Ph | H | H | $CH_3$ | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-37-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-37-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-37-5** | p-F-Ph | H | H | $CH_2Ph$ | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-37-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-37-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-37-8** | p-F-Ph | * | H | * | $^n$Bu | $N_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XII-38.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XII-38-1** | p-Cl-Ph | H | H | H | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-38-2** | p-Cl-Ph | H | H | $CH_3$ | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-38-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-38-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-38-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-38-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-38-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-38-8** | p-Cl-Ph | * | H | * | $^n$Bu | $N_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00297

Table XII-39.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XII-39-1** | p-Br-Ph | H | H | H | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-39-2** | p-Br-Ph | H | H | $CH_3$ | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-39-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-39-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-39-5** | p-Br-Ph | H | H | $CH_2Ph$ | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-39-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-39-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-39-8** | p-Br-Ph | * | H | * | $^n$Bu | $N_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XII-40.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XII-40-1** | p-I-Ph | H | H | H | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-40-2** | p-I-Ph | H | H | $CH_3$ | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-40-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-40-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-40-5** | p-I-Ph | H | H | $CH_2Ph$ | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-40-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-40-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $N_3$ | F | F | OH | H | H |
| **XII-40-8** | p-I-Ph | * | H | * | $^n$Bu | $N_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XII-41.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XII-41-1** | $CH_3$ | H | H | H | Bz | $N_3$ | F | F | OH | H | H |
| **XII-41-2** | $CH_3$ | H | H | $CH_3$ | Bz | $N_3$ | F | F | OH | H | H |
| **XII-41-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | Bz | $N_3$ | F | F | OH | H | H |
| **XII-41-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | Bz | $N_3$ | F | F | OH | H | H |
| **XII-41-5** | $CH_3$ | H | H | $CH_2Ph$ | Bz | $N_3$ | F | F | OH | H | H |
| **XII-41-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | Bz | $N_3$ | F | F | OH | H | H |
| **XII-41-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | Bz | $N_3$ | F | F | OH | H | H |
| **XII-41-8** | $CH_3$ | * | H | * | Bz | $N_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00298

Table XII-42.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XII-42-1** | Et | H | H | H | Bz | $N_3$ | F | F | OH | H | H |
| **XII-42-2** | Et | H | H | $CH_3$ | Bz | $N_3$ | F | F | OH | H | H |
| **XII-42-3** | Et | H | H | $CH(CH_3)_2$ | Bz | $N_3$ | F | F | OH | H | H |
| **XII-42-4** | Et | H | H | $CH_2CH(CH_3)_2$ | Bz | $N_3$ | F | F | OH | H | H |
| **XII-42-5** | Et | H | H | $CH_2Ph$ | Bz | $N_3$ | F | F | OH | H | H |
| **XII-42-6** | Et | H | H | $CH_2$-indol-3-yl | Bz | $N_3$ | F | F | OH | H | H |
| **XII-42-7** | Et | H | H | $CH_2CH_2SCH_3$ | Bz | $N_3$ | F | F | OH | H | H |
| **XII-42-8** | Et | * | H | * | Bz | $N_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XII-43.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XII-43-1** | $^i$Pr | H | H | H | Bz | $N_3$ | F | F | OH | H | H |
| **XII-43-2** | $^i$Pr | H | H | $CH_3$ | Bz | $N_3$ | F | F | OH | H | H |
| **XII-43-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | Bz | $N_3$ | F | F | OH | H | H |
| **XII-43-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | Bz | $N_3$ | F | F | OH | H | H |
| **XII-43-5** | $^i$Pr | H | H | $CH_2Ph$ | Bz | $N_3$ | F | F | OH | H | H |
| **XII-43-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | Bz | $N_3$ | F | F | OH | H | H |
| **XII-43-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | Bz | $N_3$ | F | F | OH | H | H |
| **XII-43-8** | $^i$Pr | * | H | * | Bz | $N_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XII-44.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XII-44-1** | $^t$Bu | H | H | H | Bz | $N_3$ | F | F | OH | H | H |
| **XII-44-2** | $^t$Bu | H | H | $CH_3$ | Bz | $N_3$ | F | F | OH | H | H |
| **XII-44-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | Bz | $N_3$ | F | F | OH | H | H |
| **XII-44-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | Bz | $N_3$ | F | F | OH | H | H |
| **XII-44-5** | $^t$Bu | H | H | $CH_2Ph$ | Bz | $N_3$ | F | F | OH | H | H |
| **XII-44-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | Bz | $N_3$ | F | F | OH | H | H |
| **XII-44-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | Bz | $N_3$ | F | F | OH | H | H |
| **XII-44-8** | $^t$Bu | * | H | * | Bz | $N_3$ | F | F | OH | H | H |



Gilead Exhibit 2024
PGR2023-00046 - Page 00299

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XII-45.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XII-45-1** | Ph | H | H | H | Bz | $N_3$ | F | F | OH | H | H |
| **XII-45-2** | Ph | H | H | $CH_3$ | Bz | $N_3$ | F | F | OH | H | H |
| **XII-45-3** | Ph | H | H | $CH(CH_3)_2$ | Bz | $N_3$ | F | F | OH | H | H |
| **XII-45-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | $N_3$ | F | F | OH | H | H |
| **XII-45-5** | Ph | H | H | $CH_2Ph$ | Bz | $N_3$ | F | F | OH | H | H |
| **XII-45-6** | Ph | H | H | $CH_2$-indol-3-yl | Bz | $N_3$ | F | F | OH | H | H |
| **XII-45-7** | Ph | H | H | $CH_2CH_2SCH_3$ | Bz | $N_3$ | F | F | OH | H | H |
| **XII-45-8** | Ph | * | H | * | Bz | $N_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XII-46.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XII-46-1** | p-Me-Ph | H | H | H | Bz | $N_3$ | F | F | OH | H | H |
| **XII-46-2** | p-Me-Ph | H | H | $CH_3$ | Bz | $N_3$ | F | F | OH | H | H |
| **XII-46-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | Bz | $N_3$ | F | F | OH | H | H |
| **XII-46-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | $N_3$ | F | F | OH | H | H |
| **XII-46-5** | p-Me-Ph | H | H | $CH_2Ph$ | Bz | $N_3$ | F | F | OH | H | H |
| **XII-46-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | Bz | $N_3$ | F | F | OH | H | H |
| **XII-46-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | $N_3$ | F | F | OH | H | H |
| **XII-46-8** | p-Me-Ph | * | H | * | Bz | $N_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XII-47.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XII-47-1** | p-F-Ph | H | H | H | Bz | $N_3$ | F | F | OH | H | H |
| **XII-47-2** | p-F-Ph | H | H | $CH_3$ | Bz | $N_3$ | F | F | OH | H | H |
| **XII-47-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | Bz | $N_3$ | F | F | OH | H | H |
| **XII-47-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | $N_3$ | F | F | OH | H | H |
| **XII-47-5** | p-F-Ph | H | H | $CH_2Ph$ | Bz | $N_3$ | F | F | OH | H | H |
| **XII-47-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | Bz | $N_3$ | F | F | OH | H | H |
| **XII-47-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | $N_3$ | F | F | OH | H | H |

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XII-47-8** | p-F-Ph | * | H | * | Bz | $N_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XII-48.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XII-48-1** | p-Cl-Ph | H | H | H | Bz | $N_3$ | F | F | OH | H | H |
| **XII-48-2** | p-Cl-Ph | H | H | $CH_3$ | Bz | $N_3$ | F | F | OH | H | H |
| **XII-48-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | Bz | $N_3$ | F | F | OH | H | H |
| **XII-48-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | $N_3$ | F | F | OH | H | H |
| **XII-48-5** | p-Cl-Ph | H | H | $CH_2Ph$ | Bz | $N_3$ | F | F | OH | H | H |
| **XII-48-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | Bz | $N_3$ | F | F | OH | H | H |
| **XII-48-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | $N_3$ | F | F | OH | H | H |
| **XII-48-8** | p-Cl-Ph | * | H | * | Bz | $N_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XII-49.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XII-49-1** | p-Br-Ph | H | H | H | Bz | $N_3$ | F | F | OH | H | H |
| **XII-49-2** | p-Br-Ph | H | H | $CH_3$ | Bz | $N_3$ | F | F | OH | H | H |
| **XII-49-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | Bz | $N_3$ | F | F | OH | H | H |
| **XII-49-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | $N_3$ | F | F | OH | H | H |
| **XII-49-5** | p-Br-Ph | H | H | $CH_2Ph$ | Bz | $N_3$ | F | F | OH | H | H |
| **XII-49-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | Bz | $N_3$ | F | F | OH | H | H |
| **XII-49-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | $N_3$ | F | F | OH | H | H |
| **XII-49-8** | p-Br-Ph | * | H | * | Bz | $N_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XII-50.

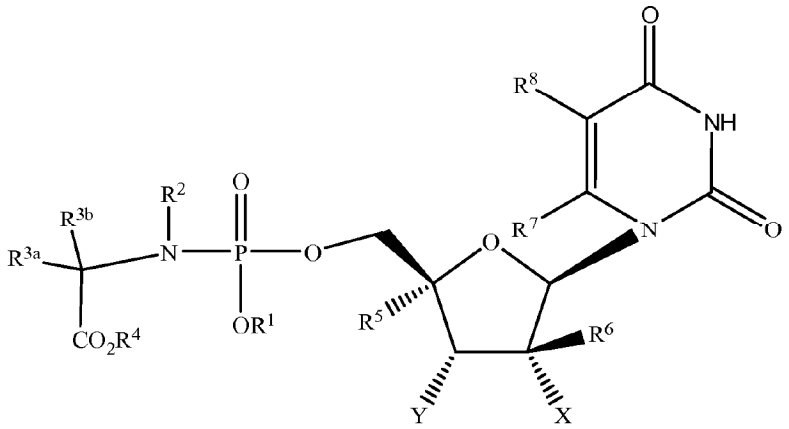
| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XII-50-1** | p-I-Ph | H | H | H | Bz | $N_3$ | F | F | OH | H | H |
| **XII-50-2** | p-I-Ph | H | H | $CH_3$ | Bz | $N_3$ | F | F | OH | H | H |
| **XII-50-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | Bz | $N_3$ | F | F | OH | H | H |
| **XII-50-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | $N_3$ | F | F | OH | H | H |
| **XII-50-5** | p-I-Ph | H | H | $CH_2Ph$ | Bz | $N_3$ | F | F | OH | H | H |



Gilead Exhibit 2024
PGR2023-00046 - Page 00301

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XII-50-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | Bz | $N_3$ | F | F | OH | H | H |
| **XII-50-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | $N_3$ | F | F | OH | H | H |
| **XII-50-8** | p-I-Ph | * | H | * | Bz | $N_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



**XIII**

Table XIII-1.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-1-1** | $CH_3$ | H | H | H | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-1-2** | $CH_3$ | H | H | $CH_3$ | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-1-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-1-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-1-5** | $CH_3$ | H | H | $CH_2Ph$ | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-1-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-1-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-1-8** | $CH_3$ | * | H | * | $CH_3$ | $N_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIII-2.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-2-1** | Et | H | H | H | $CH_3$ | $N_3$ | H | F | OH | H | H |



Gilead Exhibit 2024
PGR2023-00046 - Page 00302

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-2-2** | Et | H | H | $CH_3$ | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-2-3** | Et | H | H | $CH(CH_3)_2$ | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-2-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-2-5** | Et | H | H | $CH_2Ph$ | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-2-6** | Et | H | H | $CH_2$-indol-3-yl | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-2-7** | Et | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-2-8** | Et | * | H | * | $CH_3$ | $N_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIII-3.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-3-1** | $^i$Pr | H | H | H | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-3-2** | $^i$Pr | H | H | $CH_3$ | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-3-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-3-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-3-5** | $^i$Pr | H | H | $CH_2Ph$ | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-3-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-3-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-3-8** | $^i$Pr | * | H | * | $CH_3$ | $N_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIII-4.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-4-1** | $^t$Bu | H | H | H | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-4-2** | $^t$Bu | H | H | $CH_3$ | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-4-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-4-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-4-5** | $^t$Bu | H | H | $CH_2Ph$ | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-4-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-4-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-4-8** | $^t$Bu | * | H | * | $CH_3$ | $N_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIII-5.



Gilead Exhibit 2024
PGR2023-00046 - Page 00303

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-5-1** | Ph | H | H | H | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-5-2** | Ph | H | H | $CH_3$ | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-5-3** | Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-5-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-5-5** | Ph | H | H | $CH_2Ph$ | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-5-6** | Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-5-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-5-8** | Ph | * | H | * | $CH_3$ | $N_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIII-6.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-6-1** | p-Me-Ph | H | H | H | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-6-2** | p-Me-Ph | H | H | $CH_3$ | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-6-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-6-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-6-5** | p-Me-Ph | H | H | $CH_2Ph$ | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-6-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-6-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-6-8** | p-Me-Ph | * | H | * | $CH_3$ | $N_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIII-7.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-7-1** | p-F-Ph | H | H | H | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-7-2** | p-F-Ph | H | H | $CH_3$ | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-7-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-7-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-7-6** | p-F-Ph | H | H | $CH_2Ph$ | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-7-7** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-7-8** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-7-20** | p-F-Ph | * | H | * | $CH_3$ | $N_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00304

Table XIII-8.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-8-1** | p-Cl-Ph | H | H | H | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-8-2** | p-Cl-Ph | H | H | $CH_3$ | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-8-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-8-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-8-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-8-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-8-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-8-8** | p-Cl-Ph | * | H | * | $CH_3$ | $N_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIII-9.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-9-1** | p-Br-Ph | H | H | H | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-9-2** | p-Br-Ph | H | H | $CH_3$ | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-9-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-9-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-9-6** | p-Br-Ph | H | H | $CH_2Ph$ | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-9-7** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-9-8** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-9-20** | p-Br-Ph | * | H | * | $CH_3$ | $N_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIII-10.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-10-1** | p-I-Ph | H | H | H | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-10-2** | p-I-Ph | H | H | $CH_3$ | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-10-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-10-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-10-5** | p-I-Ph | H | H | $CH_2Ph$ | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-10-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-10-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | $N_3$ | H | F | OH | H | H |
| **XIII-10-8** | p-I-Ph | * | H | * | $CH_3$ | $N_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00305

Table XIII-11.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-11-1** | $CH_3$ | H | H | H | Et | $N_3$ | H | F | OH | H | H |
| **XIII-11-2** | $CH_3$ | H | H | $CH_3$ | Et | $N_3$ | H | F | OH | H | H |
| **XIII-11-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | Et | $N_3$ | H | F | OH | H | H |
| **XIII-11-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | Et | $N_3$ | H | F | OH | H | H |
| **XIII-11-5** | $CH_3$ | H | H | $CH_2Ph$ | Et | $N_3$ | H | F | OH | H | H |
| **XIII-11-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | Et | $N_3$ | H | F | OH | H | H |
| **XIII-11-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | Et | $N_3$ | H | F | OH | H | H |
| **XIII-11-8** | $CH_3$ | * | H | * | Et | $N_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIII-12.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-12-1** | Et | H | H | H | Et | $N_3$ | H | F | OH | H | H |
| **XIII-12-2** | Et | H | H | $CH_3$ | Et | $N_3$ | H | F | OH | H | H |
| **XIII-12-3** | Et | H | H | $CH(CH_3)_2$ | Et | $N_3$ | H | F | OH | H | H |
| **XIII-12-4** | Et | H | H | $CH_2CH(CH_3)_2$ | Et | $N_3$ | H | F | OH | H | H |
| **XIII-12-5** | Et | H | H | $CH_2Ph$ | Et | $N_3$ | H | F | OH | H | H |
| **XIII-12-6** | Et | H | H | $CH_2$-indol-3-yl | Et | $N_3$ | H | F | OH | H | H |
| **XIII-12-7** | Et | H | H | $CH_2CH_2SCH_3$ | Et | $N_3$ | H | F | OH | H | H |
| **XIII-12-8** | Et | * | H | * | Et | $N_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIII-13.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-13-1** | $^i$Pr | H | H | H | Et | $N_3$ | H | F | OH | H | H |
| **XIII-13-2** | $^i$Pr | H | H | $CH_3$ | Et | $N_3$ | H | F | OH | H | H |
| **XIII-13-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | Et | $N_3$ | H | F | OH | H | H |
| **XIII-13-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | Et | $N_3$ | H | F | OH | H | H |
| **XIII-13-5** | $^i$Pr | H | H | $CH_2Ph$ | Et | $N_3$ | H | F | OH | H | H |
| **XIII-13-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | Et | $N_3$ | H | F | OH | H | H |
| **XIII-13-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | Et | $N_3$ | H | F | OH | H | H |
| **XIII-13-8** | $^i$Pr | * | H | * | Et | $N_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00306

Table XIII-14.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-14-1** | $^t$Bu | H | H | H | Et | $N_3$ | H | F | OH | H | H |
| **XIII-14-2** | $^t$Bu | H | H | $CH_3$ | Et | $N_3$ | H | F | OH | H | H |
| **XIII-14-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | Et | $N_3$ | H | F | OH | H | H |
| **XIII-14-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | Et | $N_3$ | H | F | OH | H | H |
| **XIII-14-5** | $^t$Bu | H | H | $CH_2Ph$ | Et | $N_3$ | H | F | OH | H | H |
| **XIII-14-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | Et | $N_3$ | H | F | OH | H | H |
| **XIII-14-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | Et | $N_3$ | H | F | OH | H | H |
| **XIII-14-8** | $^t$Bu | * | H | * | Et | $N_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIII-15.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-15-1** | Ph | H | H | H | Et | $N_3$ | H | F | OH | H | H |
| **XIII-15-2** | Ph | H | H | $CH_3$ | Et | $N_3$ | H | F | OH | H | H |
| **XIII-15-3** | Ph | H | H | $CH(CH_3)_2$ | Et | $N_3$ | H | F | OH | H | H |
| **XIII-15-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | Et | $N_3$ | H | F | OH | H | H |
| **XIII-15-5** | Ph | H | H | $CH_2Ph$ | Et | $N_3$ | H | F | OH | H | H |
| **XIII-15-6** | Ph | H | H | $CH_2$-indol-3-yl | Et | $N_3$ | H | F | OH | H | H |
| **XIII-15-7** | Ph | H | H | $CH_2CH_2SCH_3$ | Et | $N_3$ | H | F | OH | H | H |
| **XIII-15-8** | Ph | * | H | * | Et | $N_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIII-16.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-16-1** | p-Me-Ph | H | H | H | Et | $N_3$ | H | F | OH | H | H |
| **XIII-16-2** | p-Me-Ph | H | H | $CH_3$ | Et | $N_3$ | H | F | OH | H | H |
| **XIII-16-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | Et | $N_3$ | H | F | OH | H | H |
| **XIII-16-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | $N_3$ | H | F | OH | H | H |
| **XIII-16-5** | p-Me-Ph | H | H | $CH_2Ph$ | Et | $N_3$ | H | F | OH | H | H |
| **XIII-16-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | Et | $N_3$ | H | F | OH | H | H |
| **XIII-16-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | Et | $N_3$ | H | F | OH | H | H |
| **XIII-16-8** | p-Me-Ph | * | H | * | Et | $N_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00307

Table XIII-17.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-17-1** | p-F-Ph | H | H | H | Et | $N_3$ | H | F | OH | H | H |
| **XIII-17-2** | p-F-Ph | H | H | $CH_3$ | Et | $N_3$ | H | F | OH | H | H |
| **XIII-17-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | Et | $N_3$ | H | F | OH | H | H |
| **XIII-17-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | $N_3$ | H | F | OH | H | H |
| **XIII-17-5** | p-F-Ph | H | H | $CH_2Ph$ | Et | $N_3$ | H | F | OH | H | H |
| **XIII-17-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | Et | $N_3$ | H | F | OH | H | H |
| **XIII-17-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | Et | $N_3$ | H | F | OH | H | H |
| **XIII-17-8** | p-F-Ph | * | H | * | Et | $N_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIII-18.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-18-1** | p-Cl-Ph | H | H | H | Et | $N_3$ | H | F | OH | H | H |
| **XIII-18-2** | p-Cl-Ph | H | H | $CH_3$ | Et | $N_3$ | H | F | OH | H | H |
| **XIII-18-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | Et | $N_3$ | H | F | OH | H | H |
| **XIII-18-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | $N_3$ | H | F | OH | H | H |
| **XIII-18-5** | p-Cl-Ph | H | H | $CH_2Ph$ | Et | $N_3$ | H | F | OH | H | H |
| **XIII-18-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | Et | $N_3$ | H | F | OH | H | H |
| **XIII-18-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | Et | $N_3$ | H | F | OH | H | H |
| **XIII-18-8** | p-Cl-Ph | * | H | * | Et | $N_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIII-19.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-19-1** | p-Br-Ph | H | H | H | Et | $N_3$ | H | F | OH | H | H |
| **XIII-19-2** | p-Br-Ph | H | H | $CH_3$ | Et | $N_3$ | H | F | OH | H | H |
| **XIII-19-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | Et | $N_3$ | H | F | OH | H | H |
| **XIII-19-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | $N_3$ | H | F | OH | H | H |
| **XIII-19-5** | p-Br-Ph | H | H | $CH_2Ph$ | Et | $N_3$ | H | F | OH | H | H |
| **XIII-19-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | Et | $N_3$ | H | F | OH | H | H |
| **XIII-19-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | Et | $N_3$ | H | F | OH | H | H |
| **XIII-19-8** | p-Br-Ph | * | H | * | Et | $N_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00308

Table XIII-20.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-20-1** | p-I-Ph | H | H | H | Et | $N_3$ | H | F | OH | H | H |
| **XIII-20-2** | p-I-Ph | H | H | $CH_3$ | Et | $N_3$ | H | F | OH | H | H |
| **XIII-20-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | Et | $N_3$ | H | F | OH | H | H |
| **XIII-20-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | $N_3$ | H | F | OH | H | H |
| **XIII-20-5** | p-I-Ph | H | H | $CH_2Ph$ | Et | $N_3$ | H | F | OH | H | H |
| **XIII-20-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | Et | $N_3$ | H | F | OH | H | H |
| **XIII-20-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | Et | $N_3$ | H | F | OH | H | H |
| **XIII-20-8** | p-I-Ph | * | H | * | Et | $N_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIII-21.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-21-1** | $CH_3$ | H | H | H | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-21-2** | $CH_3$ | H | H | $CH_3$ | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-21-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-21-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-21-5** | $CH_3$ | H | H | $CH_2Ph$ | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-21-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-21-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-21-8** | $CH_3$ | * | H | * | $^i$Pr | $N_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIII-22.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-22-1** | Et | H | H | H | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-22-2** | Et | H | H | $CH_3$ | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-22-3** | Et | H | H | $CH(CH_3)_2$ | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-22-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-22-5** | Et | H | H | $CH_2Ph$ | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-22-6** | Et | H | H | $CH_2$-indol-3-yl | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-22-7** | Et | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-22-8** | Et | * | H | * | $^i$Pr | $N_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00309

Table XIII-23.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-23-1** | $^i$Pr | H | H | H | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-23-2** | $^i$Pr | H | H | $CH_3$ | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-23-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-23-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-23-5** | $^i$Pr | H | H | $CH_2Ph$ | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-23-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-23-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-23-8** | $^i$Pr | * | H | * | $^i$Pr | $N_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIII-24.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-24-1** | $^t$Bu | H | H | H | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-24-2** | $^t$Bu | H | H | $CH_3$ | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-24-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-24-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-24-5** | $^t$Bu | H | H | $CH_2Ph$ | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-24-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-24-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-24-8** | $^t$Bu | * | H | * | $^i$Pr | $N_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIII-25.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-25-1** | Ph | H | H | H | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-25-2** | Ph | H | H | $CH_3$ | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-25-3** | Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-25-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-25-5** | Ph | H | H | $CH_2Ph$ | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-25-6** | Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-25-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-25-8** | Ph | * | H | * | $^i$Pr | $N_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00310

Table XIII-26.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-26-1** | p-Me-Ph | H | H | H | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-26-2** | p-Me-Ph | H | H | $CH_3$ | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-26-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-26-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-26-5** | p-Me-Ph | H | H | $CH_2Ph$ | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-26-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-26-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-26-8** | p-Me-Ph | * | H | * | $^i$Pr | $N_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIII-27.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-27-1** | p-F-Ph | H | H | H | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-27-2** | p-F-Ph | H | H | $CH_3$ | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-27-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-27-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-27-5** | p-F-Ph | H | H | $CH_2Ph$ | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-27-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-27-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-27-8** | p-F-Ph | * | H | * | $^i$Pr | $N_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIII-28.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-28-1** | p-Cl-Ph | H | H | H | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-28-2** | p-Cl-Ph | H | H | $CH_3$ | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-28-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-28-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-28-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-28-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-28-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-28-8** | p-Cl-Ph | * | H | * | $^i$Pr | $N_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00311

Table XIII-29.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-29-1** | p-Br-Ph | H | H | H | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-29-2** | p-Br-Ph | H | H | $CH_3$ | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-29-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-29-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-29-5** | p-Br-Ph | H | H | $CH_2Ph$ | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-29-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-29-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-29-8** | p-Br-Ph | * | H | * | $^i$Pr | $N_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIII-30.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-30-1** | p-I-Ph | H | H | H | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-30-2** | p-I-Ph | H | H | $CH_3$ | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-30-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-30-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-30-5** | p-I-Ph | H | H | $CH_2Ph$ | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-30-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-30-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $N_3$ | H | F | OH | H | H |
| **XIII-30-8** | p-I-Ph | * | H | * | $^i$Pr | $N_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIII-31.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-31-1** | $CH_3$ | H | H | H | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-31-2** | $CH_3$ | H | H | $CH_3$ | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-31-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-31-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-31-5** | $CH_3$ | H | H | $CH_2Ph$ | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-31-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-31-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-31-8** | $CH_3$ | * | H | * | $^n$Bu | $N_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00312

Table XIII-32.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-32-1** | Et | H | H | H | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-32-2** | Et | H | H | $CH_3$ | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-32-3** | Et | H | H | $CH(CH_3)_2$ | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-32-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-32-5** | Et | H | H | $CH_2Ph$ | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-32-6** | Et | H | H | $CH_2$-indol-3-yl | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-32-7** | Et | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-32-8** | Et | * | H | * | $^n$Bu | $N_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIII-33.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-33-1** | $^i$Pr | H | H | H | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-33-2** | $^i$Pr | H | H | $CH_3$ | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-33-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-33-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-33-5** | $^i$Pr | H | H | $CH_2Ph$ | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-33-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-33-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-33-8** | $^i$Pr | * | H | * | $^n$Bu | $N_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIII-34.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-34-1** | $^t$Bu | H | H | H | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-34-2** | $^t$Bu | H | H | $CH_3$ | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-34-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-34-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-34-5** | $^t$Bu | H | H | $CH_2Ph$ | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-34-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-34-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-34-8** | $^t$Bu | * | H | * | $^n$Bu | $N_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00313

Table XIII-35.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-35-1** | Ph | H | H | H | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-35-2** | Ph | H | H | $CH_3$ | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-35-3** | Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-35-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-35-5** | Ph | H | H | $CH_2Ph$ | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-35-6** | Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-35-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-35-8** | Ph | * | H | * | $^n$Bu | $N_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIII-36.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-36-1** | p-Me-Ph | H | H | H | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-36-2** | p-Me-Ph | H | H | $CH_3$ | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-36-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-36-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-36-5** | p-Me-Ph | H | H | $CH_2Ph$ | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-36-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-36-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-36-8** | p-Me-Ph | * | H | * | $^n$Bu | $N_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIII-37.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-37-1** | p-F-Ph | H | H | H | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-37-2** | p-F-Ph | H | H | $CH_3$ | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-37-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-37-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-37-5** | p-F-Ph | H | H | $CH_2Ph$ | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-37-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-37-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-37-8** | p-F-Ph | * | H | * | $^n$Bu | $N_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00314

Table XIII-38.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-38-1** | p-Cl-Ph | H | H | H | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-38-2** | p-Cl-Ph | H | H | $CH_3$ | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-38-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-38-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-38-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-38-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-38-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-38-8** | p-Cl-Ph | * | H | * | $^n$Bu | $N_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIII-39.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-39-1** | p-Br-Ph | H | H | H | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-39-2** | p-Br-Ph | H | H | $CH_3$ | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-39-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-39-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-39-5** | p-Br-Ph | H | H | $CH_2Ph$ | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-39-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-39-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-39-8** | p-Br-Ph | * | H | * | $^n$Bu | $N_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIII-40.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-40-1** | p-I-Ph | H | H | H | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-40-2** | p-I-Ph | H | H | $CH_3$ | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-40-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-40-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-40-5** | p-I-Ph | H | H | $CH_2Ph$ | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-40-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-40-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $N_3$ | H | F | OH | H | H |
| **XIII-40-8** | p-I-Ph | * | H | * | $^n$Bu | $N_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00315

Table XIII-41.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-41-1** | $CH_3$ | H | H | H | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-41-2** | $CH_3$ | H | H | $CH_3$ | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-41-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-41-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-41-5** | $CH_3$ | H | H | $CH_2Ph$ | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-41-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-41-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-41-8** | $CH_3$ | * | H | * | Bz | $N_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIII-42.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-42-1** | Et | H | H | H | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-42-2** | Et | H | H | $CH_3$ | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-42-3** | Et | H | H | $CH(CH_3)_2$ | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-42-4** | Et | H | H | $CH_2CH(CH_3)_2$ | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-42-5** | Et | H | H | $CH_2Ph$ | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-42-6** | Et | H | H | $CH_2$-indol-3-yl | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-42-7** | Et | H | H | $CH_2CH_2SCH_3$ | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-42-8** | Et | * | H | * | Bz | $N_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIII-43.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-43-1** | $^i$Pr | H | H | H | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-43-2** | $^i$Pr | H | H | $CH_3$ | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-43-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-43-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-43-5** | $^i$Pr | H | H | $CH_2Ph$ | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-43-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-43-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-43-8** | $^i$Pr | * | H | * | Bz | $N_3$ | H | F | OH | H | H |



Gilead Exhibit 2024
PGR2023-00046 - Page 00316

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIII-44.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-44-1** | $^t$Bu | H | H | H | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-44-2** | $^t$Bu | H | H | $CH_3$ | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-44-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-44-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-44-5** | $^t$Bu | H | H | $CH_2Ph$ | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-44-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-44-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-44-8** | $^t$Bu | * | H | * | Bz | $N_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIII-45.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-45-1** | Ph | H | H | H | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-45-2** | Ph | H | H | $CH_3$ | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-45-3** | Ph | H | H | $CH(CH_3)_2$ | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-45-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-45-5** | Ph | H | H | $CH_2Ph$ | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-45-6** | Ph | H | H | $CH_2$-indol-3-yl | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-45-7** | Ph | H | H | $CH_2CH_2SCH_3$ | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-45-8** | Ph | * | H | * | Bz | $N_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIII-46.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-46-1** | p-Me-Ph | H | H | H | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-46-2** | p-Me-Ph | H | H | $CH_3$ | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-46-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-46-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-46-5** | p-Me-Ph | H | H | $CH_2Ph$ | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-46-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-46-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | $N_3$ | H | F | OH | H | H |



Gilead Exhibit 2024
PGR2023-00046 - Page 00317

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-46-8** | p-Me-Ph | * | H | * | Bz | $N_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIII-47.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-47-1** | p-F-Ph | H | H | H | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-47-2** | p-F-Ph | H | H | $CH_3$ | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-47-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-47-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-47-5** | p-F-Ph | H | H | $CH_2Ph$ | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-47-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-47-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-47-8** | p-F-Ph | * | H | * | Bz | $N_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIII-48.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-48-1** | p-Cl-Ph | H | H | H | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-48-2** | p-Cl-Ph | H | H | $CH_3$ | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-48-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-48-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-48-5** | p-Cl-Ph | H | H | $CH_2Ph$ | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-48-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-48-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-48-8** | p-Cl-Ph | * | H | * | Bz | $N_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIII-49.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-49-1** | p-Br-Ph | H | H | H | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-49-2** | p-Br-Ph | H | H | $CH_3$ | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-49-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-49-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-49-5** | p-Br-Ph | H | H | $CH_2Ph$ | Bz | $N_3$ | H | F | OH | H | H |



Gilead Exhibit 2024
PGR2023-00046 - Page 00318

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-49-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-49-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-49-8** | p-Br-Ph | * | H | * | Bz | $N_3$ | H | F | OH | H | H |

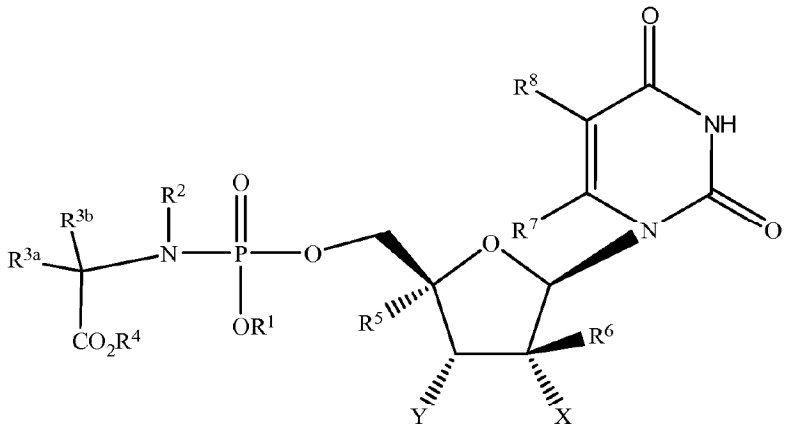
*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIII-50.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIII-50-1** | p-I-Ph | H | H | H | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-50-2** | p-I-Ph | H | H | $CH_3$ | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-50-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-50-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-50-5** | p-I-Ph | H | H | $CH_2Ph$ | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-50-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-50-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | $N_3$ | H | F | OH | H | H |
| **XIII-50-8** | p-I-Ph | * | H | * | Bz | $N_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

5




**XIV**

Table XIV-1.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-1-1** | $CH_3$ | H | H | H | $CH_3$ | $N_3$ | F | H | OH | H | H |



Gilead Exhibit 2024
PGR2023-00046 - Page 00319

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-1-2** | $CH_3$ | H | H | $CH_3$ | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-1-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-1-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-1-5** | $CH_3$ | H | H | $CH_2Ph$ | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-1-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-1-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-1-8** | $CH_3$ | * | H | * | $CH_3$ | $N_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIV-2.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-2-1** | Et | H | H | H | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-2-2** | Et | H | H | $CH_3$ | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-2-3** | Et | H | H | $CH(CH_3)_2$ | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-2-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-2-5** | Et | H | H | $CH_2Ph$ | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-2-6** | Et | H | H | $CH_2$-indol-3-yl | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-2-7** | Et | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-2-8** | Et | * | H | * | $CH_3$ | $N_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIV-3.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-3-1** | $^i$Pr | H | H | H | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-3-2** | $^i$Pr | H | H | $CH_3$ | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-3-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-3-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-3-5** | $^i$Pr | H | H | $CH_2Ph$ | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-3-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-3-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-3-8** | $^i$Pr | * | H | * | $CH_3$ | $N_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIV-4.



Gilead Exhibit 2024
PGR2023-00046 - Page 00320

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-4-1** | $^t$Bu | H | H | H | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-4-2** | $^t$Bu | H | H | $CH_3$ | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-4-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-4-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-4-5** | $^t$Bu | H | H | $CH_2Ph$ | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-4-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-4-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-4-8** | $^t$Bu | * | H | * | $CH_3$ | $N_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIV-5.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-5-1** | Ph | H | H | H | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-5-2** | Ph | H | H | $CH_3$ | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-5-3** | Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-5-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-5-5** | Ph | H | H | $CH_2Ph$ | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-5-6** | Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-5-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-5-8** | Ph | * | H | * | $CH_3$ | $N_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIV-6.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-6-1** | p-Me-Ph | H | H | H | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-6-2** | p-Me-Ph | H | H | $CH_3$ | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-6-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-6-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-6-5** | p-Me-Ph | H | H | $CH_2Ph$ | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-6-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-6-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-6-8** | p-Me-Ph | * | H | * | $CH_3$ | $N_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00321

Table XIV-7.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-7-1** | p-F-Ph | H | H | H | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-7-2** | p-F-Ph | H | H | $CH_3$ | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-7-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-7-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-7-6** | p-F-Ph | H | H | $CH_2Ph$ | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-7-7** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-7-8** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-7-20** | p-F-Ph | * | H | * | $CH_3$ | $N_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIV-8.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-8-1** | p-Cl-Ph | H | H | H | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-8-2** | p-Cl-Ph | H | H | $CH_3$ | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-8-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-8-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-8-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-8-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-8-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-8-8** | p-Cl-Ph | * | H | * | $CH_3$ | $N_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIV-9.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-9-1** | p-Br-Ph | H | H | H | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-9-2** | p-Br-Ph | H | H | $CH_3$ | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-9-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-9-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-9-6** | p-Br-Ph | H | H | $CH_2Ph$ | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-9-7** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-9-8** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-9-20** | p-Br-Ph | * | H | * | $CH_3$ | $N_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00322

Table XIV-10.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-10-1** | p-I-Ph | H | H | H | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-10-2** | p-I-Ph | H | H | $CH_3$ | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-10-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-10-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-10-5** | p-I-Ph | H | H | $CH_2Ph$ | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-10-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-10-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | $N_3$ | F | H | OH | H | H |
| **XIV-10-8** | p-I-Ph | * | H | * | $CH_3$ | $N_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIV-11.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-11-1** | $CH_3$ | H | H | H | Et | $N_3$ | F | H | OH | H | H |
| **XIV-11-2** | $CH_3$ | H | H | $CH_3$ | Et | $N_3$ | F | H | OH | H | H |
| **XIV-11-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | Et | $N_3$ | F | H | OH | H | H |
| **XIV-11-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | Et | $N_3$ | F | H | OH | H | H |
| **XIV-11-5** | $CH_3$ | H | H | $CH_2Ph$ | Et | $N_3$ | F | H | OH | H | H |
| **XIV-11-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | Et | $N_3$ | F | H | OH | H | H |
| **XIV-11-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | Et | $N_3$ | F | H | OH | H | H |
| **XIV-11-8** | $CH_3$ | * | H | * | Et | $N_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIV-12.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-12-1** | Et | H | H | H | Et | $N_3$ | F | H | OH | H | H |
| **XIV-12-2** | Et | H | H | $CH_3$ | Et | $N_3$ | F | H | OH | H | H |
| **XIV-12-3** | Et | H | H | $CH(CH_3)_2$ | Et | $N_3$ | F | H | OH | H | H |
| **XIV-12-4** | Et | H | H | $CH_2CH(CH_3)_2$ | Et | $N_3$ | F | H | OH | H | H |
| **XIV-12-5** | Et | H | H | $CH_2Ph$ | Et | $N_3$ | F | H | OH | H | H |
| **XIV-12-6** | Et | H | H | $CH_2$-indol-3-yl | Et | $N_3$ | F | H | OH | H | H |
| **XIV-12-7** | Et | H | H | $CH_2CH_2SCH_3$ | Et | $N_3$ | F | H | OH | H | H |
| **XIV-12-8** | Et | * | H | * | Et | $N_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00323

Table XIV-13.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-13-1** | $^i$Pr | H | H | H | Et | $N_3$ | F | H | OH | H | H |
| **XIV-13-2** | $^i$Pr | H | H | $CH_3$ | Et | $N_3$ | F | H | OH | H | H |
| **XIV-13-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | Et | $N_3$ | F | H | OH | H | H |
| **XIV-13-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | Et | $N_3$ | F | H | OH | H | H |
| **XIV-13-5** | $^i$Pr | H | H | $CH_2Ph$ | Et | $N_3$ | F | H | OH | H | H |
| **XIV-13-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | Et | $N_3$ | F | H | OH | H | H |
| **XIV-13-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | Et | $N_3$ | F | H | OH | H | H |
| **XIV-13-8** | $^i$Pr | * | H | * | Et | $N_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIV-14.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-14-1** | $^t$Bu | H | H | H | Et | $N_3$ | F | H | OH | H | H |
| **XIV-14-2** | $^t$Bu | H | H | $CH_3$ | Et | $N_3$ | F | H | OH | H | H |
| **XIV-14-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | Et | $N_3$ | F | H | OH | H | H |
| **XIV-14-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | Et | $N_3$ | F | H | OH | H | H |
| **XIV-14-5** | $^t$Bu | H | H | $CH_2Ph$ | Et | $N_3$ | F | H | OH | H | H |
| **XIV-14-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | Et | $N_3$ | F | H | OH | H | H |
| **XIV-14-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | Et | $N_3$ | F | H | OH | H | H |
| **XIV-14-8** | $^t$Bu | * | H | * | Et | $N_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIV-15.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-15-1** | Ph | H | H | H | Et | $N_3$ | F | H | OH | H | H |
| **XIV-15-2** | Ph | H | H | $CH_3$ | Et | $N_3$ | F | H | OH | H | H |
| **XIV-15-3** | Ph | H | H | $CH(CH_3)_2$ | Et | $N_3$ | F | H | OH | H | H |
| **XIV-15-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | Et | $N_3$ | F | H | OH | H | H |
| **XIV-15-5** | Ph | H | H | $CH_2Ph$ | Et | $N_3$ | F | H | OH | H | H |
| **XIV-15-6** | Ph | H | H | $CH_2$-indol-3-yl | Et | $N_3$ | F | H | OH | H | H |
| **XIV-15-7** | Ph | H | H | $CH_2CH_2SCH_3$ | Et | $N_3$ | F | H | OH | H | H |
| **XIV-15-8** | Ph | * | H | * | Et | $N_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00324

Table XIV-16.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-16-1** | p-Me-Ph | H | H | H | Et | $N_3$ | F | H | OH | H | H |
| **XIV-16-2** | p-Me-Ph | H | H | $CH_3$ | Et | $N_3$ | F | H | OH | H | H |
| **XIV-16-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | Et | $N_3$ | F | H | OH | H | H |
| **XIV-16-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | $N_3$ | F | H | OH | H | H |
| **XIV-16-5** | p-Me-Ph | H | H | $CH_2Ph$ | Et | $N_3$ | F | H | OH | H | H |
| **XIV-16-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | Et | $N_3$ | F | H | OH | H | H |
| **XIV-16-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | Et | $N_3$ | F | H | OH | H | H |
| **XIV-16-8** | p-Me-Ph | * | H | * | Et | $N_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIV-17.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-17-1** | p-F-Ph | H | H | H | Et | $N_3$ | F | H | OH | H | H |
| **XIV-17-2** | p-F-Ph | H | H | $CH_3$ | Et | $N_3$ | F | H | OH | H | H |
| **XIV-17-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | Et | $N_3$ | F | H | OH | H | H |
| **XIV-17-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | $N_3$ | F | H | OH | H | H |
| **XIV-17-5** | p-F-Ph | H | H | $CH_2Ph$ | Et | $N_3$ | F | H | OH | H | H |
| **XIV-17-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | Et | $N_3$ | F | H | OH | H | H |
| **XIV-17-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | Et | $N_3$ | F | H | OH | H | H |
| **XIV-17-8** | p-F-Ph | * | H | * | Et | $N_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIV-18.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-18-1** | p-Cl-Ph | H | H | H | Et | $N_3$ | F | H | OH | H | H |
| **XIV-18-2** | p-Cl-Ph | H | H | $CH_3$ | Et | $N_3$ | F | H | OH | H | H |
| **XIV-18-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | Et | $N_3$ | F | H | OH | H | H |
| **XIV-18-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | $N_3$ | F | H | OH | H | H |
| **XIV-18-5** | p-Cl-Ph | H | H | $CH_2Ph$ | Et | $N_3$ | F | H | OH | H | H |
| **XIV-18-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | Et | $N_3$ | F | H | OH | H | H |
| **XIV-18-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | Et | $N_3$ | F | H | OH | H | H |
| **XIV-18-8** | p-Cl-Ph | * | H | * | Et | $N_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00325

Table XIV-19.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-19-1** | p-Br-Ph | H | H | H | Et | $N_3$ | F | H | OH | H | H |
| **XIV-19-2** | p-Br-Ph | H | H | $CH_3$ | Et | $N_3$ | F | H | OH | H | H |
| **XIV-19-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | Et | $N_3$ | F | H | OH | H | H |
| **XIV-19-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | $N_3$ | F | H | OH | H | H |
| **XIV-19-5** | p-Br-Ph | H | H | $CH_2Ph$ | Et | $N_3$ | F | H | OH | H | H |
| **XIV-19-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | Et | $N_3$ | F | H | OH | H | H |
| **XIV-19-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | Et | $N_3$ | F | H | OH | H | H |
| **XIV-19-8** | p-Br-Ph | * | H | * | Et | $N_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIV-20.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-20-1** | p-I-Ph | H | H | H | Et | $N_3$ | F | H | OH | H | H |
| **XIV-20-2** | p-I-Ph | H | H | $CH_3$ | Et | $N_3$ | F | H | OH | H | H |
| **XIV-20-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | Et | $N_3$ | F | H | OH | H | H |
| **XIV-20-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | $N_3$ | F | H | OH | H | H |
| **XIV-20-5** | p-I-Ph | H | H | $CH_2Ph$ | Et | $N_3$ | F | H | OH | H | H |
| **XIV-20-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | Et | $N_3$ | F | H | OH | H | H |
| **XIV-20-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | Et | $N_3$ | F | H | OH | H | H |
| **XIV-20-8** | p-I-Ph | * | H | * | Et | $N_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIV-21.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-21-1** | $CH_3$ | H | H | H | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-21-2** | $CH_3$ | H | H | $CH_3$ | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-21-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-21-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-21-5** | $CH_3$ | H | H | $CH_2Ph$ | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-21-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-21-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-21-8** | $CH_3$ | * | H | * | $^i$Pr | $N_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00326

Table XIV-22.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-22-1** | Et | H | H | H | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-22-2** | Et | H | H | $CH_3$ | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-22-3** | Et | H | H | $CH(CH_3)_2$ | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-22-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-22-5** | Et | H | H | $CH_2Ph$ | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-22-6** | Et | H | H | $CH_2$-indol-3-yl | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-22-7** | Et | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-22-8** | Et | * | H | * | $^i$Pr | $N_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIV-23.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-23-1** | $^i$Pr | H | H | H | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-23-2** | $^i$Pr | H | H | $CH_3$ | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-23-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-23-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-23-5** | $^i$Pr | H | H | $CH_2Ph$ | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-23-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-23-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-23-8** | $^i$Pr | * | H | * | $^i$Pr | $N_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIV-24.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-24-1** | $^t$Bu | H | H | H | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-24-2** | $^t$Bu | H | H | $CH_3$ | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-24-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-24-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-24-5** | $^t$Bu | H | H | $CH_2Ph$ | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-24-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-24-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-24-8** | $^t$Bu | * | H | * | $^i$Pr | $N_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00327

Table XIV-25.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-25-1** | Ph | H | H | H | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-25-2** | Ph | H | H | $CH_3$ | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-25-3** | Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-25-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-25-5** | Ph | H | H | $CH_2Ph$ | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-25-6** | Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-25-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-25-8** | Ph | * | H | * | $^i$Pr | $N_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIV-26.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-26-1** | p-Me-Ph | H | H | H | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-26-2** | p-Me-Ph | H | H | $CH_3$ | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-26-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-26-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-26-5** | p-Me-Ph | H | H | $CH_2Ph$ | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-26-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-26-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-26-8** | p-Me-Ph | * | H | * | $^i$Pr | $N_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIV-27.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-27-1** | p-F-Ph | H | H | H | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-27-2** | p-F-Ph | H | H | $CH_3$ | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-27-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-27-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-27-5** | p-F-Ph | H | H | $CH_2Ph$ | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-27-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-27-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-27-8** | p-F-Ph | * | H | * | $^i$Pr | $N_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00328

Table XIV-28.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-28-1** | p-Cl-Ph | H | H | H | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-28-2** | p-Cl-Ph | H | H | $CH_3$ | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-28-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-28-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-28-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-28-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-28-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-28-8** | p-Cl-Ph | * | H | * | $^i$Pr | $N_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIV-29.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-29-1** | p-Br-Ph | H | H | H | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-29-2** | p-Br-Ph | H | H | $CH_3$ | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-29-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-29-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-29-5** | p-Br-Ph | H | H | $CH_2Ph$ | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-29-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-29-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-29-8** | p-Br-Ph | * | H | * | $^i$Pr | $N_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIV-30.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-30-1** | p-I-Ph | H | H | H | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-30-2** | p-I-Ph | H | H | $CH_3$ | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-30-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-30-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-30-5** | p-I-Ph | H | H | $CH_2Ph$ | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-30-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-30-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $N_3$ | F | H | OH | H | H |
| **XIV-30-8** | p-I-Ph | * | H | * | $^i$Pr | $N_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00329

Table XIV-31.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-31-1** | $CH_3$ | H | H | H | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-31-2** | $CH_3$ | H | H | $CH_3$ | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-31-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-31-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-31-5** | $CH_3$ | H | H | $CH_2Ph$ | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-31-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-31-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-31-8** | $CH_3$ | * | H | * | $^n$Bu | $N_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIV-32.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-32-1** | Et | H | H | H | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-32-2** | Et | H | H | $CH_3$ | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-32-3** | Et | H | H | $CH(CH_3)_2$ | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-32-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-32-5** | Et | H | H | $CH_2Ph$ | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-32-6** | Et | H | H | $CH_2$-indol-3-yl | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-32-7** | Et | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-32-8** | Et | * | H | * | $^n$Bu | $N_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIV-33.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-33-1** | $^i$Pr | H | H | H | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-33-2** | $^i$Pr | H | H | $CH_3$ | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-33-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-33-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-33-5** | $^i$Pr | H | H | $CH_2Ph$ | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-33-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-33-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-33-8** | $^i$Pr | * | H | * | $^n$Bu | $N_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00330

Table XIV-34.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-34-1** | $^t$Bu | H | H | H | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-34-2** | $^t$Bu | H | H | $CH_3$ | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-34-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-34-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-34-5** | $^t$Bu | H | H | $CH_2Ph$ | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-34-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-34-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-34-8** | $^t$Bu | * | H | * | $^n$Bu | $N_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIV-35.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-35-1** | Ph | H | H | H | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-35-2** | Ph | H | H | $CH_3$ | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-35-3** | Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-35-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-35-5** | Ph | H | H | $CH_2Ph$ | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-35-6** | Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-35-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-35-8** | Ph | * | H | * | $^n$Bu | $N_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIV-36.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-36-1** | p-Me-Ph | H | H | H | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-36-2** | p-Me-Ph | H | H | $CH_3$ | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-36-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-36-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-36-5** | p-Me-Ph | H | H | $CH_2Ph$ | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-36-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-36-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-36-8** | p-Me-Ph | * | H | * | $^n$Bu | $N_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00331

Table XIV-37.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-37-1** | p-F-Ph | H | H | H | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-37-2** | p-F-Ph | H | H | $CH_3$ | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-37-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-37-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-37-5** | p-F-Ph | H | H | $CH_2Ph$ | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-37-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-37-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-37-8** | p-F-Ph | * | H | * | $^n$Bu | $N_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIV-38.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-38-1** | p-Cl-Ph | H | H | H | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-38-2** | p-Cl-Ph | H | H | $CH_3$ | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-38-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-38-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-38-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-38-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-38-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-38-8** | p-Cl-Ph | * | H | * | $^n$Bu | $N_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIV-39.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-39-1** | p-Br-Ph | H | H | H | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-39-2** | p-Br-Ph | H | H | $CH_3$ | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-39-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-39-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-39-5** | p-Br-Ph | H | H | $CH_2Ph$ | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-39-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-39-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-39-8** | p-Br-Ph | * | H | * | $^n$Bu | $N_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00332

Table XIV-40.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-40-1** | p-I-Ph | H | H | H | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-40-2** | p-I-Ph | H | H | $CH_3$ | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-40-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-40-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-40-5** | p-I-Ph | H | H | $CH_2Ph$ | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-40-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-40-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $N_3$ | F | H | OH | H | H |
| **XIV-40-8** | p-I-Ph | * | H | * | $^n$Bu | $N_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIV-41.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-41-1** | $CH_3$ | H | H | H | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-41-2** | $CH_3$ | H | H | $CH_3$ | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-41-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-41-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-41-5** | $CH_3$ | H | H | $CH_2Ph$ | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-41-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-41-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-41-8** | $CH_3$ | * | H | * | Bz | $N_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIV-42.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-42-1** | Et | H | H | H | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-42-2** | Et | H | H | $CH_3$ | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-42-3** | Et | H | H | $CH(CH_3)_2$ | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-42-4** | Et | H | H | $CH_2CH(CH_3)_2$ | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-42-5** | Et | H | H | $CH_2Ph$ | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-42-6** | Et | H | H | $CH_2$-indol-3-yl | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-42-7** | Et | H | H | $CH_2CH_2SCH_3$ | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-42-8** | Et | * | H | * | Bz | $N_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00333

Table XIV-43.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-43-1** | $^i$Pr | H | H | H | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-43-2** | $^i$Pr | H | H | $CH_3$ | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-43-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-43-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-43-5** | $^i$Pr | H | H | $CH_2Ph$ | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-43-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-43-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-43-8** | $^i$Pr | * | H | * | Bz | $N_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIV-44.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-44-1** | $^t$Bu | H | H | H | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-44-2** | $^t$Bu | H | H | $CH_3$ | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-44-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-44-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-44-5** | $^t$Bu | H | H | $CH_2Ph$ | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-44-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-44-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-44-8** | $^t$Bu | * | H | * | Bz | $N_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIV-45.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-45-1** | Ph | H | H | H | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-45-2** | Ph | H | H | $CH_3$ | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-45-3** | Ph | H | H | $CH(CH_3)_2$ | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-45-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-45-5** | Ph | H | H | $CH_2Ph$ | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-45-6** | Ph | H | H | $CH_2$-indol-3-yl | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-45-7** | Ph | H | H | $CH_2CH_2SCH_3$ | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-45-8** | Ph | * | H | * | Bz | $N_3$ | F | H | OH | H | H |



Gilead Exhibit 2024
PGR2023-00046 - Page 00334

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIV-46.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-46-1** | p-Me-Ph | H | H | H | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-46-2** | p-Me-Ph | H | H | $CH_3$ | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-46-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-46-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-46-5** | p-Me-Ph | H | H | $CH_2Ph$ | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-46-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-46-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-46-8** | p-Me-Ph | * | H | * | Bz | $N_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIV-47.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-47-1** | p-F-Ph | H | H | H | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-47-2** | p-F-Ph | H | H | $CH_3$ | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-47-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-47-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-47-5** | p-F-Ph | H | H | $CH_2Ph$ | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-47-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-47-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-47-8** | p-F-Ph | * | H | * | Bz | $N_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIV-48.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-48-1** | p-Cl-Ph | H | H | H | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-48-2** | p-Cl-Ph | H | H | $CH_3$ | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-48-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-48-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-48-5** | p-Cl-Ph | H | H | $CH_2Ph$ | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-48-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-48-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | $N_3$ | F | H | OH | H | H |



Gilead Exhibit 2024
PGR2023-00046 - Page 00335

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-48-8** | p-Cl-Ph | * | H | * | Bz | $N_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIV-49.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-49-1** | p-Br-Ph | H | H | H | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-49-2** | p-Br-Ph | H | H | $CH_3$ | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-49-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-49-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-49-5** | p-Br-Ph | H | H | $CH_2Ph$ | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-49-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-49-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-49-8** | p-Br-Ph | * | H | * | Bz | $N_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

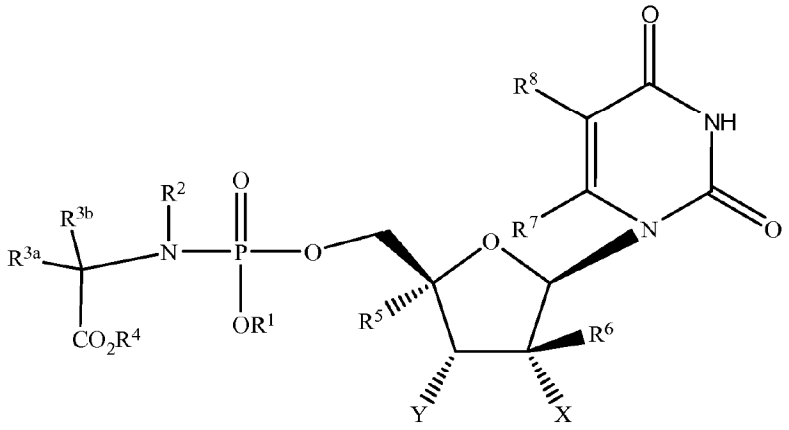
Table XIV-50.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIV-50-1** | p-I-Ph | H | H | H | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-50-2** | p-I-Ph | H | H | $CH_3$ | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-50-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-50-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-50-5** | p-I-Ph | H | H | $CH_2Ph$ | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-50-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-50-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | $N_3$ | F | H | OH | H | H |
| **XIV-50-8** | p-I-Ph | * | H | * | Bz | $N_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00336



**XV**

Table XV-1.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-1-1** | $CH_3$ | H | H | H | $CH_3$ | F | F | H | OH | H | H |
| **XV-1-2** | $CH_3$ | H | H | $CH_3$ | $CH_3$ | F | F | H | OH | H | H |
| **XV-1-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $CH_3$ | F | F | H | OH | H | H |
| **XV-1-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | F | F | H | OH | H | H |
| **XV-1-5** | $CH_3$ | H | H | $CH_2Ph$ | $CH_3$ | F | F | H | OH | H | H |
| **XV-1-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $CH_3$ | F | F | H | OH | H | H |
| **XV-1-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | F | F | H | OH | H | H |
| **XV-1-8** | $CH_3$ | * | H | * | $CH_3$ | F | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XV-2.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-2-1** | Et | H | H | H | $CH_3$ | F | F | H | OH | H | H |
| **XV-2-2** | Et | H | H | $CH_3$ | $CH_3$ | F | F | H | OH | H | H |
| **XV-2-3** | Et | H | H | $CH(CH_3)_2$ | $CH_3$ | F | F | H | OH | H | H |
| **XV-2-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | F | F | H | OH | H | H |
| **XV-2-5** | Et | H | H | $CH_2Ph$ | $CH_3$ | F | F | H | OH | H | H |
| **XV-2-6** | Et | H | H | $CH_2$-indol-3-yl | $CH_3$ | F | F | H | OH | H | H |
| **XV-2-7** | Et | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | F | F | H | OH | H | H |
| **XV-2-8** | Et | * | H | * | $CH_3$ | F | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00337

Table XV-3.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-3-1** | $^i$Pr | H | H | H | $CH_3$ | F | F | H | OH | H | H |
| **XV-3-2** | $^i$Pr | H | H | $CH_3$ | $CH_3$ | F | F | H | OH | H | H |
| **XV-3-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $CH_3$ | F | F | H | OH | H | H |
| **XV-3-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | F | F | H | OH | H | H |
| **XV-3-5** | $^i$Pr | H | H | $CH_2Ph$ | $CH_3$ | F | F | H | OH | H | H |
| **XV-3-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $CH_3$ | F | F | H | OH | H | H |
| **XV-3-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | F | F | H | OH | H | H |
| **XV-3-8** | $^i$Pr | * | H | * | $CH_3$ | F | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XV-4.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-4-1** | $^t$Bu | H | H | H | $CH_3$ | F | F | H | OH | H | H |
| **XV-4-2** | $^t$Bu | H | H | $CH_3$ | $CH_3$ | F | F | H | OH | H | H |
| **XV-4-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $CH_3$ | F | F | H | OH | H | H |
| **XV-4-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | F | F | H | OH | H | H |
| **XV-4-5** | $^t$Bu | H | H | $CH_2Ph$ | $CH_3$ | F | F | H | OH | H | H |
| **XV-4-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $CH_3$ | F | F | H | OH | H | H |
| **XV-4-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | F | F | H | OH | H | H |
| **XV-4-8** | $^t$Bu | * | H | * | $CH_3$ | F | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XV-5.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-5-1** | Ph | H | H | H | $CH_3$ | F | F | H | OH | H | H |
| **XV-5-2** | Ph | H | H | $CH_3$ | $CH_3$ | F | F | H | OH | H | H |
| **XV-5-3** | Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | F | F | H | OH | H | H |
| **XV-5-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | F | F | H | OH | H | H |
| **XV-5-5** | Ph | H | H | $CH_2Ph$ | $CH_3$ | F | F | H | OH | H | H |
| **XV-5-6** | Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | F | F | H | OH | H | H |
| **XV-5-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | F | F | H | OH | H | H |
| **XV-5-8** | Ph | * | H | * | $CH_3$ | F | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00338

Table XV-6.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-6-1** | p-Me-Ph | H | H | H | $CH_3$ | F | F | H | OH | H | H |
| **XV-6-2** | p-Me-Ph | H | H | $CH_3$ | $CH_3$ | F | F | H | OH | H | H |
| **XV-6-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | F | F | H | OH | H | H |
| **XV-6-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | F | F | H | OH | H | H |
| **XV-6-5** | p-Me-Ph | H | H | $CH_2Ph$ | $CH_3$ | F | F | H | OH | H | H |
| **XV-6-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | F | F | H | OH | H | H |
| **XV-6-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | F | F | H | OH | H | H |
| **XV-6-8** | p-Me-Ph | * | H | * | $CH_3$ | F | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XV-7.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-7-1** | p-F-Ph | H | H | H | $CH_3$ | F | F | H | OH | H | H |
| **XV-7-2** | p-F-Ph | H | H | $CH_3$ | $CH_3$ | F | F | H | OH | H | H |
| **XV-7-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | F | F | H | OH | H | H |
| **XV-7-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | F | F | H | OH | H | H |
| **XV-7-6** | p-F-Ph | H | H | $CH_2Ph$ | $CH_3$ | F | F | H | OH | H | H |
| **XV-7-7** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | F | F | H | OH | H | H |
| **XV-7-8** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | F | F | H | OH | H | H |
| **XV-7-20** | p-F-Ph | * | H | * | $CH_3$ | F | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XV-8.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-8-1** | p-Cl-Ph | H | H | H | $CH_3$ | F | F | H | OH | H | H |
| **XV-8-2** | p-Cl-Ph | H | H | $CH_3$ | $CH_3$ | F | F | H | OH | H | H |
| **XV-8-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | F | F | H | OH | H | H |
| **XV-8-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | F | F | H | OH | H | H |
| **XV-8-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $CH_3$ | F | F | H | OH | H | H |
| **XV-8-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | F | F | H | OH | H | H |
| **XV-8-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | F | F | H | OH | H | H |
| **XV-8-8** | p-Cl-Ph | * | H | * | $CH_3$ | F | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00339

Table XV-9.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-9-1** | p-Br-Ph | H | H | H | $CH_3$ | F | F | H | OH | H | H |
| **XV-9-2** | p-Br-Ph | H | H | $CH_3$ | $CH_3$ | F | F | H | OH | H | H |
| **XV-9-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | F | F | H | OH | H | H |
| **XV-9-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | F | F | H | OH | H | H |
| **XV-9-6** | p-Br-Ph | H | H | $CH_2Ph$ | $CH_3$ | F | F | H | OH | H | H |
| **XV-9-7** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | F | F | H | OH | H | H |
| **XV-9-8** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | F | F | H | OH | H | H |
| **XV-9-20** | p-Br-Ph | * | H | * | $CH_3$ | F | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XV-10.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-10-1** | p-I-Ph | H | H | H | $CH_3$ | F | F | H | OH | H | H |
| **XV-10-2** | p-I-Ph | H | H | $CH_3$ | $CH_3$ | F | F | H | OH | H | H |
| **XV-10-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | F | F | H | OH | H | H |
| **XV-10-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | F | F | H | OH | H | H |
| **XV-10-5** | p-I-Ph | H | H | $CH_2Ph$ | $CH_3$ | F | F | H | OH | H | H |
| **XV-10-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | F | F | H | OH | H | H |
| **XV-10-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | F | F | H | OH | H | H |
| **XV-10-8** | p-I-Ph | * | H | * | $CH_3$ | F | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XV-11.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-11-1** | $CH_3$ | H | H | H | Et | F | F | H | OH | H | H |
| **XV-11-2** | $CH_3$ | H | H | $CH_3$ | Et | F | F | H | OH | H | H |
| **XV-11-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | Et | F | F | H | OH | H | H |
| **XV-11-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | Et | F | F | H | OH | H | H |
| **XV-11-5** | $CH_3$ | H | H | $CH_2Ph$ | Et | F | F | H | OH | H | H |
| **XV-11-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | Et | F | F | H | OH | H | H |
| **XV-11-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | Et | F | F | H | OH | H | H |
| **XV-11-8** | $CH_3$ | * | H | * | Et | F | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00340

Table XV-12.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-12-1** | Et | H | H | H | Et | F | F | H | OH | H | H |
| **XV-12-2** | Et | H | H | $CH_3$ | Et | F | F | H | OH | H | H |
| **XV-12-3** | Et | H | H | $CH(CH_3)_2$ | Et | F | F | H | OH | H | H |
| **XV-12-4** | Et | H | H | $CH_2CH(CH_3)_2$ | Et | F | F | H | OH | H | H |
| **XV-12-5** | Et | H | H | $CH_2Ph$ | Et | F | F | H | OH | H | H |
| **XV-12-6** | Et | H | H | $CH_2$-indol-3-yl | Et | F | F | H | OH | H | H |
| **XV-12-7** | Et | H | H | $CH_2CH_2SCH_3$ | Et | F | F | H | OH | H | H |
| **XV-12-8** | Et | * | H | * | Et | F | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XV-13.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-13-1** | $^i$Pr | H | H | H | Et | F | F | H | OH | H | H |
| **XV-13-2** | $^i$Pr | H | H | $CH_3$ | Et | F | F | H | OH | H | H |
| **XV-13-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | Et | F | F | H | OH | H | H |
| **XV-13-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | Et | F | F | H | OH | H | H |
| **XV-13-5** | $^i$Pr | H | H | $CH_2Ph$ | Et | F | F | H | OH | H | H |
| **XV-13-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | Et | F | F | H | OH | H | H |
| **XV-13-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | Et | F | F | H | OH | H | H |
| **XV-13-8** | $^i$Pr | * | H | * | Et | F | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XV-14.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-14-1** | $^t$Bu | H | H | H | Et | F | F | H | OH | H | H |
| **XV-14-2** | $^t$Bu | H | H | $CH_3$ | Et | F | F | H | OH | H | H |
| **XV-14-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | Et | F | F | H | OH | H | H |
| **XV-14-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | Et | F | F | H | OH | H | H |
| **XV-14-5** | $^t$Bu | H | H | $CH_2Ph$ | Et | F | F | H | OH | H | H |
| **XV-14-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | Et | F | F | H | OH | H | H |
| **XV-14-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | Et | F | F | H | OH | H | H |
| **XV-14-8** | $^t$Bu | * | H | * | Et | F | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00341

Table XV-15.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-15-1** | Ph | H | H | H | Et | F | F | H | OH | H | H |
| **XV-15-2** | Ph | H | H | $CH_3$ | Et | F | F | H | OH | H | H |
| **XV-15-3** | Ph | H | H | $CH(CH_3)_2$ | Et | F | F | H | OH | H | H |
| **XV-15-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | Et | F | F | H | OH | H | H |
| **XV-15-5** | Ph | H | H | $CH_2Ph$ | Et | F | F | H | OH | H | H |
| **XV-15-6** | Ph | H | H | $CH_2$-indol-3-yl | Et | F | F | H | OH | H | H |
| **XV-15-7** | Ph | H | H | $CH_2CH_2SCH_3$ | Et | F | F | H | OH | H | H |
| **XV-15-8** | Ph | * | H | * | Et | F | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XV-16.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-16-1** | p-Me-Ph | H | H | H | Et | F | F | H | OH | H | H |
| **XV-16-2** | p-Me-Ph | H | H | $CH_3$ | Et | F | F | H | OH | H | H |
| **XV-16-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | Et | F | F | H | OH | H | H |
| **XV-16-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | F | F | H | OH | H | H |
| **XV-16-5** | p-Me-Ph | H | H | $CH_2Ph$ | Et | F | F | H | OH | H | H |
| **XV-16-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | Et | F | F | H | OH | H | H |
| **XV-16-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | Et | F | F | H | OH | H | H |
| **XV-16-8** | p-Me-Ph | * | H | * | Et | F | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XV-17.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-17-1** | p-F-Ph | H | H | H | Et | F | F | H | OH | H | H |
| **XV-17-2** | p-F-Ph | H | H | $CH_3$ | Et | F | F | H | OH | H | H |
| **XV-17-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | Et | F | F | H | OH | H | H |
| **XV-17-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | F | F | H | OH | H | H |
| **XV-17-5** | p-F-Ph | H | H | $CH_2Ph$ | Et | F | F | H | OH | H | H |
| **XV-17-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | Et | F | F | H | OH | H | H |
| **XV-17-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | Et | F | F | H | OH | H | H |
| **XV-17-8** | p-F-Ph | * | H | * | Et | F | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00342

Table XV-18.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-18-1** | p-Cl-Ph | H | H | H | Et | F | F | H | OH | H | H |
| **XV-18-2** | p-Cl-Ph | H | H | $CH_3$ | Et | F | F | H | OH | H | H |
| **XV-18-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | Et | F | F | H | OH | H | H |
| **XV-18-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | F | F | H | OH | H | H |
| **XV-18-5** | p-Cl-Ph | H | H | $CH_2Ph$ | Et | F | F | H | OH | H | H |
| **XV-18-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | Et | F | F | H | OH | H | H |
| **XV-18-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | Et | F | F | H | OH | H | H |
| **XV-18-8** | p-Cl-Ph | * | H | * | Et | F | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XV-19.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-19-1** | p-Br-Ph | H | H | H | Et | F | F | H | OH | H | H |
| **XV-19-2** | p-Br-Ph | H | H | $CH_3$ | Et | F | F | H | OH | H | H |
| **XV-19-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | Et | F | F | H | OH | H | H |
| **XV-19-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | F | F | H | OH | H | H |
| **XV-19-5** | p-Br-Ph | H | H | $CH_2Ph$ | Et | F | F | H | OH | H | H |
| **XV-19-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | Et | F | F | H | OH | H | H |
| **XV-19-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | Et | F | F | H | OH | H | H |
| **XV-19-8** | p-Br-Ph | * | H | * | Et | F | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XV-20.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-20-1** | p-I-Ph | H | H | H | Et | F | F | H | OH | H | H |
| **XV-20-2** | p-I-Ph | H | H | $CH_3$ | Et | F | F | H | OH | H | H |
| **XV-20-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | Et | F | F | H | OH | H | H |
| **XV-20-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | F | F | H | OH | H | H |
| **XV-20-5** | p-I-Ph | H | H | $CH_2Ph$ | Et | F | F | H | OH | H | H |
| **XV-20-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | Et | F | F | H | OH | H | H |
| **XV-20-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | Et | F | F | H | OH | H | H |
| **XV-20-8** | p-I-Ph | * | H | * | Et | F | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00343

Table XV-21.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-21-1** | $CH_3$ | H | H | H | $^i$Pr | F | F | H | OH | H | H |
| **XV-21-2** | $CH_3$ | H | H | $CH_3$ | $^i$Pr | F | F | H | OH | H | H |
| **XV-21-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $^i$Pr | F | F | H | OH | H | H |
| **XV-21-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | F | F | H | OH | H | H |
| **XV-21-5** | $CH_3$ | H | H | $CH_2Ph$ | $^i$Pr | F | F | H | OH | H | H |
| **XV-21-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $^i$Pr | F | F | H | OH | H | H |
| **XV-21-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | F | F | H | OH | H | H |
| **XV-21-8** | $CH_3$ | * | H | * | $^i$Pr | F | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XV-22.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-22-1** | Et | H | H | H | $^i$Pr | F | F | H | OH | H | H |
| **XV-22-2** | Et | H | H | $CH_3$ | $^i$Pr | F | F | H | OH | H | H |
| **XV-22-3** | Et | H | H | $CH(CH_3)_2$ | $^i$Pr | F | F | H | OH | H | H |
| **XV-22-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | F | F | H | OH | H | H |
| **XV-22-5** | Et | H | H | $CH_2Ph$ | $^i$Pr | F | F | H | OH | H | H |
| **XV-22-6** | Et | H | H | $CH_2$-indol-3-yl | $^i$Pr | F | F | H | OH | H | H |
| **XV-22-7** | Et | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | F | F | H | OH | H | H |
| **XV-22-8** | Et | * | H | * | $^i$Pr | F | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XV-23.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-23-1** | $^i$Pr | H | H | H | $^i$Pr | F | F | H | OH | H | H |
| **XV-23-2** | $^i$Pr | H | H | $CH_3$ | $^i$Pr | F | F | H | OH | H | H |
| **XV-23-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $^i$Pr | F | F | H | OH | H | H |
| **XV-23-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | F | F | H | OH | H | H |
| **XV-23-5** | $^i$Pr | H | H | $CH_2Ph$ | $^i$Pr | F | F | H | OH | H | H |
| **XV-23-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $^i$Pr | F | F | H | OH | H | H |
| **XV-23-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | F | F | H | OH | H | H |
| **XV-23-8** | $^i$Pr | * | H | * | $^i$Pr | F | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00344

Table XV-24.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-24-1** | $^t$Bu | H | H | H | $^i$Pr | F | F | H | OH | H | H |
| **XV-24-2** | $^t$Bu | H | H | $CH_3$ | $^i$Pr | F | F | H | OH | H | H |
| **XV-24-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $^i$Pr | F | F | H | OH | H | H |
| **XV-24-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | F | F | H | OH | H | H |
| **XV-24-5** | $^t$Bu | H | H | $CH_2Ph$ | $^i$Pr | F | F | H | OH | H | H |
| **XV-24-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $^i$Pr | F | F | H | OH | H | H |
| **XV-24-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | F | F | H | OH | H | H |
| **XV-24-8** | $^t$Bu | * | H | * | $^i$Pr | F | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XV-25.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-25-1** | Ph | H | H | H | $^i$Pr | F | F | H | OH | H | H |
| **XV-25-2** | Ph | H | H | $CH_3$ | $^i$Pr | F | F | H | OH | H | H |
| **XV-25-3** | Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | F | F | H | OH | H | H |
| **XV-25-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | F | F | H | OH | H | H |
| **XV-25-5** | Ph | H | H | $CH_2Ph$ | $^i$Pr | F | F | H | OH | H | H |
| **XV-25-6** | Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | F | F | H | OH | H | H |
| **XV-25-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | F | F | H | OH | H | H |
| **XV-25-8** | Ph | * | H | * | $^i$Pr | F | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XV-26.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-26-1** | p-Me-Ph | H | H | H | $^i$Pr | F | F | H | OH | H | H |
| **XV-26-2** | p-Me-Ph | H | H | $CH_3$ | $^i$Pr | F | F | H | OH | H | H |
| **XV-26-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | F | F | H | OH | H | H |
| **XV-26-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | F | F | H | OH | H | H |
| **XV-26-5** | p-Me-Ph | H | H | $CH_2Ph$ | $^i$Pr | F | F | H | OH | H | H |
| **XV-26-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | F | F | H | OH | H | H |
| **XV-26-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | F | F | H | OH | H | H |
| **XV-26-8** | p-Me-Ph | * | H | * | $^i$Pr | F | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00345

Table XV-27.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-27-1** | p-F-Ph | H | H | H | $^i$Pr | F | F | H | OH | H | H |
| **XV-27-2** | p-F-Ph | H | H | $CH_3$ | $^i$Pr | F | F | H | OH | H | H |
| **XV-27-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | F | F | H | OH | H | H |
| **XV-27-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | F | F | H | OH | H | H |
| **XV-27-5** | p-F-Ph | H | H | $CH_2Ph$ | $^i$Pr | F | F | H | OH | H | H |
| **XV-27-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | F | F | H | OH | H | H |
| **XV-27-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | F | F | H | OH | H | H |
| **XV-27-8** | p-F-Ph | * | H | * | $^i$Pr | F | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XV-28.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-28-1** | p-Cl-Ph | H | H | H | $^i$Pr | F | F | H | OH | H | H |
| **XV-28-2** | p-Cl-Ph | H | H | $CH_3$ | $^i$Pr | F | F | H | OH | H | H |
| **XV-28-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | F | F | H | OH | H | H |
| **XV-28-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | F | F | H | OH | H | H |
| **XV-28-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $^i$Pr | F | F | H | OH | H | H |
| **XV-28-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | F | F | H | OH | H | H |
| **XV-28-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | F | F | H | OH | H | H |
| **XV-28-8** | p-Cl-Ph | * | H | * | $^i$Pr | F | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XV-29.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-29-1** | p-Br-Ph | H | H | H | $^i$Pr | F | F | H | OH | H | H |
| **XV-29-2** | p-Br-Ph | H | H | $CH_3$ | $^i$Pr | F | F | H | OH | H | H |
| **XV-29-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | F | F | H | OH | H | H |
| **XV-29-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | F | F | H | OH | H | H |
| **XV-29-5** | p-Br-Ph | H | H | $CH_2Ph$ | $^i$Pr | F | F | H | OH | H | H |
| **XV-29-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | F | F | H | OH | H | H |
| **XV-29-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | F | F | H | OH | H | H |
| **XV-29-8** | p-Br-Ph | * | H | * | $^i$Pr | F | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00346

Table XV-30.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-30-1** | p-I-Ph | H | H | H | $^i$Pr | F | F | H | OH | H | H |
| **XV-30-2** | p-I-Ph | H | H | $CH_3$ | $^i$Pr | F | F | H | OH | H | H |
| **XV-30-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | F | F | H | OH | H | H |
| **XV-30-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | F | F | H | OH | H | H |
| **XV-30-5** | p-I-Ph | H | H | $CH_2Ph$ | $^i$Pr | F | F | H | OH | H | H |
| **XV-30-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | F | F | H | OH | H | H |
| **XV-30-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | F | F | H | OH | H | H |
| **XV-30-8** | p-I-Ph | * | H | * | $^i$Pr | F | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XV-31.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-31-1** | $CH_3$ | H | H | H | $^n$Bu | F | F | H | OH | H | H |
| **XV-31-2** | $CH_3$ | H | H | $CH_3$ | $^n$Bu | F | F | H | OH | H | H |
| **XV-31-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $^n$Bu | F | F | H | OH | H | H |
| **XV-31-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | F | F | H | OH | H | H |
| **XV-31-5** | $CH_3$ | H | H | $CH_2Ph$ | $^n$Bu | F | F | H | OH | H | H |
| **XV-31-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $^n$Bu | F | F | H | OH | H | H |
| **XV-31-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | F | F | H | OH | H | H |
| **XV-31-8** | $CH_3$ | * | H | * | $^n$Bu | F | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XV-32.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-32-1** | Et | H | H | H | $^n$Bu | F | F | H | OH | H | H |
| **XV-32-2** | Et | H | H | $CH_3$ | $^n$Bu | F | F | H | OH | H | H |
| **XV-32-3** | Et | H | H | $CH(CH_3)_2$ | $^n$Bu | F | F | H | OH | H | H |
| **XV-32-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | F | F | H | OH | H | H |
| **XV-32-5** | Et | H | H | $CH_2Ph$ | $^n$Bu | F | F | H | OH | H | H |
| **XV-32-6** | Et | H | H | $CH_2$-indol-3-yl | $^n$Bu | F | F | H | OH | H | H |
| **XV-32-7** | Et | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | F | F | H | OH | H | H |
| **XV-32-8** | Et | * | H | * | $^n$Bu | F | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00347

Table XV-33.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-33-1** | $^i$Pr | H | H | H | $^n$Bu | F | F | H | OH | H | H |
| **XV-33-2** | $^i$Pr | H | H | $CH_3$ | $^n$Bu | F | F | H | OH | H | H |
| **XV-33-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $^n$Bu | F | F | H | OH | H | H |
| **XV-33-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | F | F | H | OH | H | H |
| **XV-33-5** | $^i$Pr | H | H | $CH_2Ph$ | $^n$Bu | F | F | H | OH | H | H |
| **XV-33-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $^n$Bu | F | F | H | OH | H | H |
| **XV-33-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | F | F | H | OH | H | H |
| **XV-33-8** | $^i$Pr | * | H | * | $^n$Bu | F | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XV-34.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-34-1** | $^t$Bu | H | H | H | $^n$Bu | F | F | H | OH | H | H |
| **XV-34-2** | $^t$Bu | H | H | $CH_3$ | $^n$Bu | F | F | H | OH | H | H |
| **XV-34-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $^n$Bu | F | F | H | OH | H | H |
| **XV-34-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | F | F | H | OH | H | H |
| **XV-34-5** | $^t$Bu | H | H | $CH_2Ph$ | $^n$Bu | F | F | H | OH | H | H |
| **XV-34-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $^n$Bu | F | F | H | OH | H | H |
| **XV-34-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | F | F | H | OH | H | H |
| **XV-34-8** | $^t$Bu | * | H | * | $^n$Bu | F | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XV-35.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-35-1** | Ph | H | H | H | $^n$Bu | F | F | H | OH | H | H |
| **XV-35-2** | Ph | H | H | $CH_3$ | $^n$Bu | F | F | H | OH | H | H |
| **XV-35-3** | Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | F | F | H | OH | H | H |
| **XV-35-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | F | F | H | OH | H | H |
| **XV-35-5** | Ph | H | H | $CH_2Ph$ | $^n$Bu | F | F | H | OH | H | H |
| **XV-35-6** | Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | F | F | H | OH | H | H |
| **XV-35-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | F | F | H | OH | H | H |
| **XV-35-8** | Ph | * | H | * | $^n$Bu | F | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00348

Table XV-36.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-36-1** | p-Me-Ph | H | H | H | $^n$Bu | F | F | H | OH | H | H |
| **XV-36-2** | p-Me-Ph | H | H | $CH_3$ | $^n$Bu | F | F | H | OH | H | H |
| **XV-36-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | F | F | H | OH | H | H |
| **XV-36-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | F | F | H | OH | H | H |
| **XV-36-5** | p-Me-Ph | H | H | $CH_2Ph$ | $^n$Bu | F | F | H | OH | H | H |
| **XV-36-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | F | F | H | OH | H | H |
| **XV-36-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | F | F | H | OH | H | H |
| **XV-36-8** | p-Me-Ph | * | H | * | $^n$Bu | F | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XV-37.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-37-1** | p-F-Ph | H | H | H | $^n$Bu | F | F | H | OH | H | H |
| **XV-37-2** | p-F-Ph | H | H | $CH_3$ | $^n$Bu | F | F | H | OH | H | H |
| **XV-37-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | F | F | H | OH | H | H |
| **XV-37-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | F | F | H | OH | H | H |
| **XV-37-5** | p-F-Ph | H | H | $CH_2Ph$ | $^n$Bu | F | F | H | OH | H | H |
| **XV-37-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | F | F | H | OH | H | H |
| **XV-37-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | F | F | H | OH | H | H |
| **XV-37-8** | p-F-Ph | * | H | * | $^n$Bu | F | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XV-38.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-38-1** | p-Cl-Ph | H | H | H | $^n$Bu | F | F | H | OH | H | H |
| **XV-38-2** | p-Cl-Ph | H | H | $CH_3$ | $^n$Bu | F | F | H | OH | H | H |
| **XV-38-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | F | F | H | OH | H | H |
| **XV-38-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | F | F | H | OH | H | H |
| **XV-38-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $^n$Bu | F | F | H | OH | H | H |
| **XV-38-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | F | F | H | OH | H | H |
| **XV-38-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | F | F | H | OH | H | H |
| **XV-38-8** | p-Cl-Ph | * | H | * | $^n$Bu | F | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00349

Table XV-39.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-39-1** | p-Br-Ph | H | H | H | $^n$Bu | F | F | H | OH | H | H |
| **XV-39-2** | p-Br-Ph | H | H | $CH_3$ | $^n$Bu | F | F | H | OH | H | H |
| **XV-39-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | F | F | H | OH | H | H |
| **XV-39-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | F | F | H | OH | H | H |
| **XV-39-5** | p-Br-Ph | H | H | $CH_2Ph$ | $^n$Bu | F | F | H | OH | H | H |
| **XV-39-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | F | F | H | OH | H | H |
| **XV-39-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | F | F | H | OH | H | H |
| **XV-39-8** | p-Br-Ph | * | H | * | $^n$Bu | F | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XV-40.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-40-1** | p-I-Ph | H | H | H | $^n$Bu | F | F | H | OH | H | H |
| **XV-40-2** | p-I-Ph | H | H | $CH_3$ | $^n$Bu | F | F | H | OH | H | H |
| **XV-40-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | F | F | H | OH | H | H |
| **XV-40-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | F | F | H | OH | H | H |
| **XV-40-5** | p-I-Ph | H | H | $CH_2Ph$ | $^n$Bu | F | F | H | OH | H | H |
| **XV-40-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | F | F | H | OH | H | H |
| **XV-40-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | F | F | H | OH | H | H |
| **XV-40-8** | p-I-Ph | * | H | * | $^n$Bu | F | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XV-41.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-41-1** | $CH_3$ | H | H | H | Bz | F | F | H | OH | H | H |
| **XV-41-2** | $CH_3$ | H | H | $CH_3$ | Bz | F | F | H | OH | H | H |
| **XV-41-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | Bz | F | F | H | OH | H | H |
| **XV-41-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | Bz | F | F | H | OH | H | H |
| **XV-41-5** | $CH_3$ | H | H | $CH_2Ph$ | Bz | F | F | H | OH | H | H |
| **XV-41-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | Bz | F | F | H | OH | H | H |
| **XV-41-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | Bz | F | F | H | OH | H | H |
| **XV-41-8** | $CH_3$ | * | H | * | Bz | F | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00350

Table XV-42.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-42-1** | Et | H | H | H | Bz | F | F | H | OH | H | H |
| **XV-42-2** | Et | H | H | $CH_3$ | Bz | F | F | H | OH | H | H |
| **XV-42-3** | Et | H | H | $CH(CH_3)_2$ | Bz | F | F | H | OH | H | H |
| **XV-42-4** | Et | H | H | $CH_2CH(CH_3)_2$ | Bz | F | F | H | OH | H | H |
| **XV-42-5** | Et | H | H | $CH_2Ph$ | Bz | F | F | H | OH | H | H |
| **XV-42-6** | Et | H | H | $CH_2$-indol-3-yl | Bz | F | F | H | OH | H | H |
| **XV-42-7** | Et | H | H | $CH_2CH_2SCH_3$ | Bz | F | F | H | OH | H | H |
| **XV-42-8** | Et | * | H | * | Bz | F | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XV-43.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-43-1** | $^i$Pr | H | H | H | Bz | F | F | H | OH | H | H |
| **XV-43-2** | $^i$Pr | H | H | $CH_3$ | Bz | F | F | H | OH | H | H |
| **XV-43-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | Bz | F | F | H | OH | H | H |
| **XV-43-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | Bz | F | F | H | OH | H | H |
| **XV-43-5** | $^i$Pr | H | H | $CH_2Ph$ | Bz | F | F | H | OH | H | H |
| **XV-43-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | Bz | F | F | H | OH | H | H |
| **XV-43-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | Bz | F | F | H | OH | H | H |
| **XV-43-8** | $^i$Pr | * | H | * | Bz | F | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XV-44.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-44-1** | $^t$Bu | H | H | H | Bz | F | F | H | OH | H | H |
| **XV-44-2** | $^t$Bu | H | H | $CH_3$ | Bz | F | F | H | OH | H | H |
| **XV-44-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | Bz | F | F | H | OH | H | H |
| **XV-44-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | Bz | F | F | H | OH | H | H |
| **XV-44-5** | $^t$Bu | H | H | $CH_2Ph$ | Bz | F | F | H | OH | H | H |
| **XV-44-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | Bz | F | F | H | OH | H | H |
| **XV-44-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | Bz | F | F | H | OH | H | H |
| **XV-44-8** | $^t$Bu | * | H | * | Bz | F | F | H | OH | H | H |



Gilead Exhibit 2024
PGR2023-00046 - Page 00351

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XV-45.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-45-1** | Ph | H | H | H | Bz | F | F | H | OH | H | H |
| **XV-45-2** | Ph | H | H | $CH_3$ | Bz | F | F | H | OH | H | H |
| **XV-45-3** | Ph | H | H | $CH(CH_3)_2$ | Bz | F | F | H | OH | H | H |
| **XV-45-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | F | F | H | OH | H | H |
| **XV-45-5** | Ph | H | H | $CH_2Ph$ | Bz | F | F | H | OH | H | H |
| **XV-45-6** | Ph | H | H | $CH_2$-indol-3-yl | Bz | F | F | H | OH | H | H |
| **XV-45-7** | Ph | H | H | $CH_2CH_2SCH_3$ | Bz | F | F | H | OH | H | H |
| **XV-45-8** | Ph | * | H | * | Bz | F | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XV-46.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-46-1** | p-Me-Ph | H | H | H | Bz | F | F | H | OH | H | H |
| **XV-46-2** | p-Me-Ph | H | H | $CH_3$ | Bz | F | F | H | OH | H | H |
| **XV-46-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | Bz | F | F | H | OH | H | H |
| **XV-46-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | F | F | H | OH | H | H |
| **XV-46-5** | p-Me-Ph | H | H | $CH_2Ph$ | Bz | F | F | H | OH | H | H |
| **XV-46-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | Bz | F | F | H | OH | H | H |
| **XV-46-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | F | F | H | OH | H | H |
| **XV-46-8** | p-Me-Ph | * | H | * | Bz | F | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XV-47.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-47-1** | p-F-Ph | H | H | H | Bz | F | F | H | OH | H | H |
| **XV-47-2** | p-F-Ph | H | H | $CH_3$ | Bz | F | F | H | OH | H | H |
| **XV-47-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | Bz | F | F | H | OH | H | H |
| **XV-47-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | F | F | H | OH | H | H |
| **XV-47-5** | p-F-Ph | H | H | $CH_2Ph$ | Bz | F | F | H | OH | H | H |
| **XV-47-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | Bz | F | F | H | OH | H | H |
| **XV-47-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | F | F | H | OH | H | H |



Gilead Exhibit 2024
PGR2023-00046 - Page 00352

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-47-8** | p-F-Ph | * | H | * | Bz | F | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XV-48.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-48-1** | p-Cl-Ph | H | H | H | Bz | F | F | H | OH | H | H |
| **XV-48-2** | p-Cl-Ph | H | H | $CH_3$ | Bz | F | F | H | OH | H | H |
| **XV-48-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | Bz | F | F | H | OH | H | H |
| **XV-48-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | F | F | H | OH | H | H |
| **XV-48-5** | p-Cl-Ph | H | H | $CH_2Ph$ | Bz | F | F | H | OH | H | H |
| **XV-48-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | Bz | F | F | H | OH | H | H |
| **XV-48-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | F | F | H | OH | H | H |
| **XV-48-8** | p-Cl-Ph | * | H | * | Bz | F | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XV-49.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-49-1** | p-Br-Ph | H | H | H | Bz | F | F | H | OH | H | H |
| **XV-49-2** | p-Br-Ph | H | H | $CH_3$ | Bz | F | F | H | OH | H | H |
| **XV-49-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | Bz | F | F | H | OH | H | H |
| **XV-49-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | F | F | H | OH | H | H |
| **XV-49-5** | p-Br-Ph | H | H | $CH_2Ph$ | Bz | F | F | H | OH | H | H |
| **XV-49-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | Bz | F | F | H | OH | H | H |
| **XV-49-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | F | F | H | OH | H | H |
| **XV-49-8** | p-Br-Ph | * | H | * | Bz | F | F | H | OH | H | H |

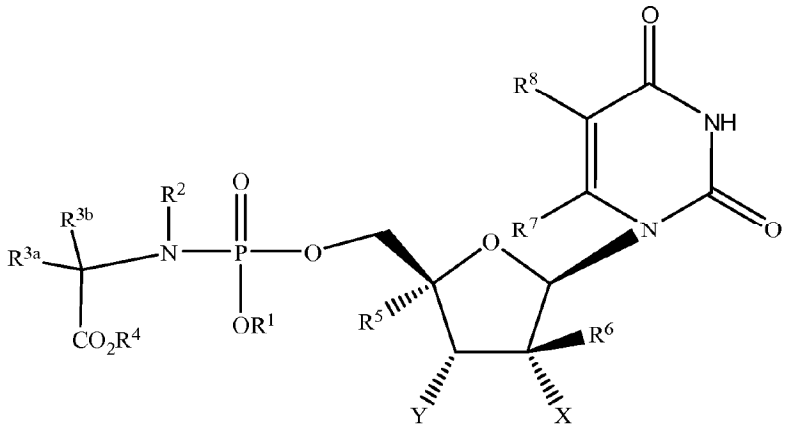
*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XV-50.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-50-1** | p-I-Ph | H | H | H | Bz | F | F | H | OH | H | H |
| **XV-50-2** | p-I-Ph | H | H | $CH_3$ | Bz | F | F | H | OH | H | H |
| **XV-50-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | Bz | F | F | H | OH | H | H |
| **XV-50-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | F | F | H | OH | H | H |
| **XV-50-5** | p-I-Ph | H | H | $CH_2Ph$ | Bz | F | F | H | OH | H | H |

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XV-50-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | Bz | F | F | H | OH | H | H |
| **XV-50-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | F | F | H | OH | H | H |
| **XV-50-8** | p-I-Ph | * | H | * | Bz | F | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



**XVI**

Table XVI-1.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVI-1-1** | $CH_3$ | H | H | H | $CH_3$ | F | F | F | OH | H | H |
| **XVI-1-2** | $CH_3$ | H | H | $CH_3$ | $CH_3$ | F | F | F | OH | H | H |
| **XVI-1-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $CH_3$ | F | F | F | OH | H | H |
| **XVI-1-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | F | F | F | OH | H | H |
| **XVI-1-5** | $CH_3$ | H | H | $CH_2Ph$ | $CH_3$ | F | F | F | OH | H | H |
| **XVI-1-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $CH_3$ | F | F | F | OH | H | H |
| **XVI-1-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | F | F | F | OH | H | H |
| **XVI-1-8** | $CH_3$ | * | H | * | $CH_3$ | F | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVI-2.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVI-2-1** | Et | H | H | H | $CH_3$ | F | F | F | OH | H | H |

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVI-2-2** | Et | H | H | $CH_3$ | $CH_3$ | F | F | F | OH | H | H |
| **XVI-2-3** | Et | H | H | $CH(CH_3)_2$ | $CH_3$ | F | F | F | OH | H | H |
| **XVI-2-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | F | F | F | OH | H | H |
| **XVI-2-5** | Et | H | H | $CH_2Ph$ | $CH_3$ | F | F | F | OH | H | H |
| **XVI-2-6** | Et | H | H | $CH_2$-indol-3-yl | $CH_3$ | F | F | F | OH | H | H |
| **XVI-2-7** | Et | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | F | F | F | OH | H | H |
| **XVI-2-8** | Et | * | H | * | $CH_3$ | F | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVI-3.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVI-3-1** | $^i$Pr | H | H | H | $CH_3$ | F | F | F | OH | H | H |
| **XVI-3-2** | $^i$Pr | H | H | $CH_3$ | $CH_3$ | F | F | F | OH | H | H |
| **XVI-3-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $CH_3$ | F | F | F | OH | H | H |
| **XVI-3-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | F | F | F | OH | H | H |
| **XVI-3-5** | $^i$Pr | H | H | $CH_2Ph$ | $CH_3$ | F | F | F | OH | H | H |
| **XVI-3-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $CH_3$ | F | F | F | OH | H | H |
| **XVI-3-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | F | F | F | OH | H | H |
| **XVI-3-8** | $^i$Pr | * | H | * | $CH_3$ | F | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVI-4.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVI-4-1** | $^t$Bu | H | H | H | $CH_3$ | F | F | F | OH | H | H |
| **XVI-4-2** | $^t$Bu | H | H | $CH_3$ | $CH_3$ | F | F | F | OH | H | H |
| **XVI-4-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $CH_3$ | F | F | F | OH | H | H |
| **XVI-4-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | F | F | F | OH | H | H |
| **XVI-4-5** | $^t$Bu | H | H | $CH_2Ph$ | $CH_3$ | F | F | F | OH | H | H |
| **XVI-4-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $CH_3$ | F | F | F | OH | H | H |
| **XVI-4-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | F | F | F | OH | H | H |
| **XVI-4-8** | $^t$Bu | * | H | * | $CH_3$ | F | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVI-5.



Gilead Exhibit 2024
PGR2023-00046 - Page 00355

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVI-5-1** | Ph | H | H | H | $CH_3$ | F | F | F | OH | H | H |
| **XVI-5-2** | Ph | H | H | $CH_3$ | $CH_3$ | F | F | F | OH | H | H |
| **XVI-5-3** | Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | F | F | F | OH | H | H |
| **XVI-5-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | F | F | F | OH | H | H |
| **XVI-5-5** | Ph | H | H | $CH_2Ph$ | $CH_3$ | F | F | F | OH | H | H |
| **XVI-5-6** | Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | F | F | F | OH | H | H |
| **XVI-5-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | F | F | F | OH | H | H |
| **XVI-5-8** | Ph | * | H | * | $CH_3$ | F | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVI-6.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVI-6-1** | p-Me-Ph | H | H | H | $CH_3$ | F | F | F | OH | H | H |
| **XVI-6-2** | p-Me-Ph | H | H | $CH_3$ | $CH_3$ | F | F | F | OH | H | H |
| **XVI-6-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | F | F | F | OH | H | H |
| **XVI-6-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | F | F | F | OH | H | H |
| **XVI-6-5** | p-Me-Ph | H | H | $CH_2Ph$ | $CH_3$ | F | F | F | OH | H | H |
| **XVI-6-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | F | F | F | OH | H | H |
| **XVI-6-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | F | F | F | OH | H | H |
| **XVI-6-8** | p-Me-Ph | * | H | * | $CH_3$ | F | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVI-7.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVI-7-1** | p-F-Ph | H | H | H | $CH_3$ | F | F | F | OH | H | H |
| **XVI-7-2** | p-F-Ph | H | H | $CH_3$ | $CH_3$ | F | F | F | OH | H | H |
| **XVI-7-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | F | F | F | OH | H | H |
| **XVI-7-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | F | F | F | OH | H | H |
| **XVI-7-6** | p-F-Ph | H | H | $CH_2Ph$ | $CH_3$ | F | F | F | OH | H | H |
| **XVI-7-7** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | F | F | F | OH | H | H |
| **XVI-7-8** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | F | F | F | OH | H | H |
| **XVI-7-20** | p-F-Ph | * | H | * | $CH_3$ | F | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00356

Table XVI-8.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVI-8-1** | p-Cl-Ph | H | H | H | $CH_3$ | F | F | F | OH | H | H |
| **XVI-8-2** | p-Cl-Ph | H | H | $CH_3$ | $CH_3$ | F | F | F | OH | H | H |
| **XVI-8-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | F | F | F | OH | H | H |
| **XVI-8-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | F | F | F | OH | H | H |
| **XVI-8-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $CH_3$ | F | F | F | OH | H | H |
| **XVI-8-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | F | F | F | OH | H | H |
| **XVI-8-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | F | F | F | OH | H | H |
| **XVI-8-8** | p-Cl-Ph | * | H | * | $CH_3$ | F | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVI-9.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVI-9-1** | p-Br-Ph | H | H | H | $CH_3$ | F | F | F | OH | H | H |
| **XVI-9-2** | p-Br-Ph | H | H | $CH_3$ | $CH_3$ | F | F | F | OH | H | H |
| **XVI-9-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | F | F | F | OH | H | H |
| **XVI-9-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | F | F | F | OH | H | H |
| **XVI-9-6** | p-Br-Ph | H | H | $CH_2Ph$ | $CH_3$ | F | F | F | OH | H | H |
| **XVI-9-7** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | F | F | F | OH | H | H |
| **XVI-9-8** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | F | F | F | OH | H | H |
| **XVI-9-20** | p-Br-Ph | * | H | * | $CH_3$ | F | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVI-10.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVI-10-1** | p-I-Ph | H | H | H | $CH_3$ | F | F | F | OH | H | H |
| **XVI-10-2** | p-I-Ph | H | H | $CH_3$ | $CH_3$ | F | F | F | OH | H | H |
| **XVI-10-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | F | F | F | OH | H | H |
| **XVI-10-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | F | F | F | OH | H | H |
| **XVI-10-5** | p-I-Ph | H | H | $CH_2Ph$ | $CH_3$ | F | F | F | OH | H | H |
| **XVI-10-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | F | F | F | OH | H | H |
| **XVI-10-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | F | F | F | OH | H | H |
| **XVI-10-8** | p-I-Ph | * | H | * | $CH_3$ | F | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00357

Table XVI-11.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVI-11-1** | $CH_3$ | H | H | H | Et | F | F | F | OH | H | H |
| **XVI-11-2** | $CH_3$ | H | H | $CH_3$ | Et | F | F | F | OH | H | H |
| **XVI-11-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | Et | F | F | F | OH | H | H |
| **XVI-11-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | Et | F | F | F | OH | H | H |
| **XVI-11-5** | $CH_3$ | H | H | $CH_2Ph$ | Et | F | F | F | OH | H | H |
| **XVI-11-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | Et | F | F | F | OH | H | H |
| **XVI-11-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | Et | F | F | F | OH | H | H |
| **XVI-11-8** | $CH_3$ | * | H | * | Et | F | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVI-12.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVI-12-1** | Et | H | H | H | Et | F | F | F | OH | H | H |
| **XVI-12-2** | Et | H | H | $CH_3$ | Et | F | F | F | OH | H | H |
| **XVI-12-3** | Et | H | H | $CH(CH_3)_2$ | Et | F | F | F | OH | H | H |
| **XVI-12-4** | Et | H | H | $CH_2CH(CH_3)_2$ | Et | F | F | F | OH | H | H |
| **XVI-12-5** | Et | H | H | $CH_2Ph$ | Et | F | F | F | OH | H | H |
| **XVI-12-6** | Et | H | H | $CH_2$-indol-3-yl | Et | F | F | F | OH | H | H |
| **XVI-12-7** | Et | H | H | $CH_2CH_2SCH_3$ | Et | F | F | F | OH | H | H |
| **XVI-12-8** | Et | * | H | * | Et | F | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVI-13.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVI-13-1** | $^i$Pr | H | H | H | Et | F | F | F | OH | H | H |
| **XVI-13-2** | $^i$Pr | H | H | $CH_3$ | Et | F | F | F | OH | H | H |
| **XVI-13-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | Et | F | F | F | OH | H | H |
| **XVI-13-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | Et | F | F | F | OH | H | H |
| **XVI-13-5** | $^i$Pr | H | H | $CH_2Ph$ | Et | F | F | F | OH | H | H |
| **XVI-13-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | Et | F | F | F | OH | H | H |
| **XVI-13-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | Et | F | F | F | OH | H | H |
| **XVI-13-8** | $^i$Pr | * | H | * | Et | F | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00358

Table XVI-14.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVI-14-1** | $^t$Bu | H | H | H | Et | F | F | F | OH | H | H |
| **XVI-14-2** | $^t$Bu | H | H | $CH_3$ | Et | F | F | F | OH | H | H |
| **XVI-14-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | Et | F | F | F | OH | H | H |
| **XVI-14-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | Et | F | F | F | OH | H | H |
| **XVI-14-5** | $^t$Bu | H | H | $CH_2Ph$ | Et | F | F | F | OH | H | H |
| **XVI-14-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | Et | F | F | F | OH | H | H |
| **XVI-14-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | Et | F | F | F | OH | H | H |
| **XVI-14-8** | $^t$Bu | * | H | * | Et | F | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVI-15.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVI-15-1** | Ph | H | H | H | Et | F | F | F | OH | H | H |
| **XVI-15-2** | Ph | H | H | $CH_3$ | Et | F | F | F | OH | H | H |
| **XVI-15-3** | Ph | H | H | $CH(CH_3)_2$ | Et | F | F | F | OH | H | H |
| **XVI-15-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | Et | F | F | F | OH | H | H |
| **XVI-15-5** | Ph | H | H | $CH_2Ph$ | Et | F | F | F | OH | H | H |
| **XVI-15-6** | Ph | H | H | $CH_2$-indol-3-yl | Et | F | F | F | OH | H | H |
| **XVI-15-7** | Ph | H | H | $CH_2CH_2SCH_3$ | Et | F | F | F | OH | H | H |
| **XVI-15-8** | Ph | * | H | * | Et | F | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVI-16.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVI-16-1** | p-Me-Ph | H | H | H | Et | F | F | F | OH | H | H |
| **XVI-16-2** | p-Me-Ph | H | H | $CH_3$ | Et | F | F | F | OH | H | H |
| **XVI-16-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | Et | F | F | F | OH | H | H |
| **XVI-16-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | F | F | F | OH | H | H |
| **XVI-16-5** | p-Me-Ph | H | H | $CH_2Ph$ | Et | F | F | F | OH | H | H |
| **XVI-16-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | Et | F | F | F | OH | H | H |
| **XVI-16-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | Et | F | F | F | OH | H | H |
| **XVI-16-8** | p-Me-Ph | * | H | * | Et | F | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00359

Table XVI-17.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVI-17-1** | p-F-Ph | H | H | H | Et | F | F | F | OH | H | H |
| **XVI-17-2** | p-F-Ph | H | H | $CH_3$ | Et | F | F | F | OH | H | H |
| **XVI-17-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | Et | F | F | F | OH | H | H |
| **XVI-17-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | F | F | F | OH | H | H |
| **XVI-17-5** | p-F-Ph | H | H | $CH_2Ph$ | Et | F | F | F | OH | H | H |
| **XVI-17-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | Et | F | F | F | OH | H | H |
| **XVI-17-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | Et | F | F | F | OH | H | H |
| **XVI-17-8** | p-F-Ph | * | H | * | Et | F | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVI-18.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVI-18-1** | p-Cl-Ph | H | H | H | Et | F | F | F | OH | H | H |
| **XVI-18-2** | p-Cl-Ph | H | H | $CH_3$ | Et | F | F | F | OH | H | H |
| **XVI-18-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | Et | F | F | F | OH | H | H |
| **XVI-18-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | F | F | F | OH | H | H |
| **XVI-18-5** | p-Cl-Ph | H | H | $CH_2Ph$ | Et | F | F | F | OH | H | H |
| **XVI-18-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | Et | F | F | F | OH | H | H |
| **XVI-18-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | Et | F | F | F | OH | H | H |
| **XVI-18-8** | p-Cl-Ph | * | H | * | Et | F | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVI-19.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVI-19-1** | p-Br-Ph | H | H | H | Et | F | F | F | OH | H | H |
| **XVI-19-2** | p-Br-Ph | H | H | $CH_3$ | Et | F | F | F | OH | H | H |
| **XVI-19-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | Et | F | F | F | OH | H | H |
| **XVI-19-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | F | F | F | OH | H | H |
| **XVI-19-5** | p-Br-Ph | H | H | $CH_2Ph$ | Et | F | F | F | OH | H | H |
| **XVI-19-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | Et | F | F | F | OH | H | H |
| **XVI-19-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | Et | F | F | F | OH | H | H |
| **XVI-19-8** | p-Br-Ph | * | H | * | Et | F | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00360

Table XVI-20.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ |
|---|---|---|---|---|---|---|---|---|---|---|
| **XVI-20-1** | p-I-Ph | H | H | H | Et | F | F | F | OH | H |
| **XVI-20-2** | p-I-Ph | H | H | $CH_3$ | Et | F | F | F | OH | H |
| **XVI-20-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | Et | F | F | F | OH | H |
| **XVI-20-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | F | F | F | OH | H |
| **XVI-20-5** | p-I-Ph | H | H | $CH_2Ph$ | Et | F | F | F | OH | H |
| **XVI-20-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | Et | F | F | F | OH | H |
| **XVI-20-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | Et | F | F | F | OH | H |
| **XVI-20-8** | p-I-Ph | * | H | * | Et | F | F | F | OH | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVI-21.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVI-21-1** | $CH_3$ | H | H | H | $^i$Pr | F | F | F | OH | H | H |
| **XVI-21-2** | $CH_3$ | H | H | $CH_3$ | $^i$Pr | F | F | F | OH | H | H |
| **XVI-21-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $^i$Pr | F | F | F | OH | H | H |
| **XVI-21-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | F | F | F | OH | H | H |
| **XVI-21-5** | $CH_3$ | H | H | $CH_2Ph$ | $^i$Pr | F | F | F | OH | H | H |
| **XVI-21-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $^i$Pr | F | F | F | OH | H | H |
| **XVI-21-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | F | F | F | OH | H | H |
| **XVI-21-8** | $CH_3$ | * | H | * | $^i$Pr | F | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVI-22.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVI-22-1** | Et | H | H | H | $^i$Pr | F | F | F | OH | H | H |
| **XVI-22-2** | Et | H | H | $CH_3$ | $^i$Pr | F | F | F | OH | H | H |
| **XVI-22-3** | Et | H | H | $CH(CH_3)_2$ | $^i$Pr | F | F | F | OH | H | H |
| **XVI-22-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | F | F | F | OH | H | H |
| **XVI-22-5** | Et | H | H | $CH_2Ph$ | $^i$Pr | F | F | F | OH | H | H |
| **XVI-22-6** | Et | H | H | $CH_2$-indol-3-yl | $^i$Pr | F | F | F | OH | H | H |
| **XVI-22-7** | Et | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | F | F | F | OH | H | H |
| **XVI-22-8** | Et | * | H | * | $^i$Pr | F | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00361

Table XVI-23.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVI-23-1** | $^i$Pr | H | H | H | $^i$Pr | F | F | F | OH | H | H |
| **XVI-23-2** | $^i$Pr | H | H | $CH_3$ | $^i$Pr | F | F | F | OH | H | H |
| **XVI-23-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $^i$Pr | F | F | F | OH | H | H |
| **XVI-23-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | F | F | F | OH | H | H |
| **XVI-23-5** | $^i$Pr | H | H | $CH_2Ph$ | $^i$Pr | F | F | F | OH | H | H |
| **XVI-23-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $^i$Pr | F | F | F | OH | H | H |
| **XVI-23-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | F | F | F | OH | H | H |
| **XVI-23-8** | $^i$Pr | * | H | * | $^i$Pr | F | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVI-24.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVI-24-1** | $^t$Bu | H | H | H | $^i$Pr | F | F | F | OH | H | H |
| **XVI-24-2** | $^t$Bu | H | H | $CH_3$ | $^i$Pr | F | F | F | OH | H | H |
| **XVI-24-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $^i$Pr | F | F | F | OH | H | H |
| **XVI-24-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | F | F | F | OH | H | H |
| **XVI-24-5** | $^t$Bu | H | H | $CH_2Ph$ | $^i$Pr | F | F | F | OH | H | H |
| **XVI-24-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $^i$Pr | F | F | F | OH | H | H |
| **XVI-24-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | F | F | F | OH | H | H |
| **XVI-24-8** | $^t$Bu | * | H | * | $^i$Pr | F | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVI-25.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVI-25-1** | Ph | H | H | H | $^i$Pr | F | F | F | OH | H | H |
| **XVI-25-2** | Ph | H | H | $CH_3$ | $^i$Pr | F | F | F | OH | H | H |
| **XVI-25-3** | Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | F | F | F | OH | H | H |
| **XVI-25-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | F | F | F | OH | H | H |
| **XVI-25-5** | Ph | H | H | $CH_2Ph$ | $^i$Pr | F | F | F | OH | H | H |
| **XVI-25-6** | Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | F | F | F | OH | H | H |
| **XVI-25-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | F | F | F | OH | H | H |
| **XVI-25-8** | Ph | * | H | * | $^i$Pr | F | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00362

Table XVI-26.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVI-26-1** | p-Me-Ph | H | H | H | $^i$Pr | F | F | F | OH | H | H |
| **XVI-26-2** | p-Me-Ph | H | H | $CH_3$ | $^i$Pr | F | F | F | OH | H | H |
| **XVI-26-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | F | F | F | OH | H | H |
| **XVI-26-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | F | F | F | OH | H | H |
| **XVI-26-5** | p-Me-Ph | H | H | $CH_2Ph$ | $^i$Pr | F | F | F | OH | H | H |
| **XVI-26-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | F | F | F | OH | H | H |
| **XVI-26-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | F | F | F | OH | H | H |
| **XVI-26-8** | p-Me-Ph | * | H | * | $^i$Pr | F | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVI-27.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVI-27-1** | p-F-Ph | H | H | H | $^i$Pr | F | F | F | OH | H | H |
| **XVI-27-2** | p-F-Ph | H | H | $CH_3$ | $^i$Pr | F | F | F | OH | H | H |
| **XVI-27-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | F | F | F | OH | H | H |
| **XVI-27-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | F | F | F | OH | H | H |
| **XVI-27-5** | p-F-Ph | H | H | $CH_2Ph$ | $^i$Pr | F | F | F | OH | H | H |
| **XVI-27-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | F | F | F | OH | H | H |
| **XVI-27-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | F | F | F | OH | H | H |
| **XVI-27-8** | p-F-Ph | * | H | * | $^i$Pr | F | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVI-28.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVI-28-1** | p-Cl-Ph | H | H | H | $^i$Pr | F | F | F | OH | H | H |
| **XVI-28-2** | p-Cl-Ph | H | H | $CH_3$ | $^i$Pr | F | F | F | OH | H | H |
| **XVI-28-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | F | F | F | OH | H | H |
| **XVI-28-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | F | F | F | OH | H | H |
| **XVI-28-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $^i$Pr | F | F | F | OH | H | H |
| **XVI-28-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | F | F | F | OH | H | H |
| **XVI-28-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | F | F | F | OH | H | H |
| **XVI-28-8** | p-Cl-Ph | * | H | * | $^i$Pr | F | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00363

Table XVI-29.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVI-29-1** | p-Br-Ph | H | H | H | $^i$Pr | F | F | F | OH | H | H |
| **XVI-29-2** | p-Br-Ph | H | H | $CH_3$ | $^i$Pr | F | F | F | OH | H | H |
| **XVI-29-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | F | F | F | OH | H | H |
| **XVI-29-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | F | F | F | OH | H | H |
| **XVI-29-5** | p-Br-Ph | H | H | $CH_2Ph$ | $^i$Pr | F | F | F | OH | H | H |
| **XVI-29-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | F | F | F | OH | H | H |
| **XVI-29-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | F | F | F | OH | H | H |
| **XVI-29-8** | p-Br-Ph | * | H | * | $^i$Pr | F | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVI-30.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVI-30-1** | p-I-Ph | H | H | H | $^i$Pr | F | F | F | OH | H | H |
| **XVI-30-2** | p-I-Ph | H | H | $CH_3$ | $^i$Pr | F | F | F | OH | H | H |
| **XVI-30-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | F | F | F | OH | H | H |
| **XVI-30-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | F | F | F | OH | H | H |
| **XVI-30-5** | p-I-Ph | H | H | $CH_2Ph$ | $^i$Pr | F | F | F | OH | H | H |
| **XVI-30-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | F | F | F | OH | H | H |
| **XVI-30-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | F | F | F | OH | H | H |
| **XVI-30-8** | p-I-Ph | * | H | * | $^i$Pr | F | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVI-31.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVI-31-1** | $CH_3$ | H | H | H | $^n$Bu | F | F | F | OH | H | H |
| **XVI-31-2** | $CH_3$ | H | H | $CH_3$ | $^n$Bu | F | F | F | OH | H | H |
| **XVI-31-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $^n$Bu | F | F | F | OH | H | H |
| **XVI-31-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | F | F | F | OH | H | H |
| **XVI-31-5** | $CH_3$ | H | H | $CH_2Ph$ | $^n$Bu | F | F | F | OH | H | H |
| **XVI-31-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $^n$Bu | F | F | F | OH | H | H |
| **XVI-31-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | F | F | F | OH | H | H |
| **XVI-31-8** | $CH_3$ | * | H | * | $^n$Bu | F | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00364

Table XVI-32.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVI-32-1** | Et | H | H | H | $^n$Bu | F | F | F | OH | H | H |
| **XVI-32-2** | Et | H | H | $CH_3$ | $^n$Bu | F | F | F | OH | H | H |
| **XVI-32-3** | Et | H | H | $CH(CH_3)_2$ | $^n$Bu | F | F | F | OH | H | H |
| **XVI-32-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | F | F | F | OH | H | H |
| **XVI-32-5** | Et | H | H | $CH_2Ph$ | $^n$Bu | F | F | F | OH | H | H |
| **XVI-32-6** | Et | H | H | $CH_2$-indol-3-yl | $^n$Bu | F | F | F | OH | H | H |
| **XVI-32-7** | Et | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | F | F | F | OH | H | H |
| **XVI-32-8** | Et | * | H | * | $^n$Bu | F | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVI-33.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVI-33-1** | $^i$Pr | H | H | H | $^n$Bu | F | F | F | OH | H | H |
| **XVI-33-2** | $^i$Pr | H | H | $CH_3$ | $^n$Bu | F | F | F | OH | H | H |
| **XVI-33-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $^n$Bu | F | F | F | OH | H | H |
| **XVI-33-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | F | F | F | OH | H | H |
| **XVI-33-5** | $^i$Pr | H | H | $CH_2Ph$ | $^n$Bu | F | F | F | OH | H | H |
| **XVI-33-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $^n$Bu | F | F | F | OH | H | H |
| **XVI-33-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | F | F | F | OH | H | H |
| **XVI-33-8** | $^i$Pr | * | H | * | $^n$Bu | F | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVI-34.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVI-34-1** | $^t$Bu | H | H | H | $^n$Bu | F | F | F | OH | H | H |
| **XVI-34-2** | $^t$Bu | H | H | $CH_3$ | $^n$Bu | F | F | F | OH | H | H |
| **XVI-34-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $^n$Bu | F | F | F | OH | H | H |
| **XVI-34-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | F | F | F | OH | H | H |
| **XVI-34-5** | $^t$Bu | H | H | $CH_2Ph$ | $^n$Bu | F | F | F | OH | H | H |
| **XVI-34-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $^n$Bu | F | F | F | OH | H | H |
| **XVI-34-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | F | F | F | OH | H | H |
| **XVI-34-8** | $^t$Bu | * | H | * | $^n$Bu | F | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00365

Table XVI-35.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVI-35-1** | Ph | H | H | H | $^n$Bu | F | F | F | OH | H | H |
| **XVI-35-2** | Ph | H | H | $CH_3$ | $^n$Bu | F | F | F | OH | H | H |
| **XVI-35-3** | Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | F | F | F | OH | H | H |
| **XVI-35-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | F | F | F | OH | H | H |
| **XVI-35-5** | Ph | H | H | $CH_2Ph$ | $^n$Bu | F | F | F | OH | H | H |
| **XVI-35-6** | Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | F | F | F | OH | H | H |
| **XVI-35-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | F | F | F | OH | H | H |
| **XVI-35-8** | Ph | * | H | * | $^n$Bu | F | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVI-36.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVI-36-1** | p-Me-Ph | H | H | H | $^n$Bu | F | F | F | OH | H | H |
| **XVI-36-2** | p-Me-Ph | H | H | $CH_3$ | $^n$Bu | F | F | F | OH | H | H |
| **XVI-36-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | F | F | F | OH | H | H |
| **XVI-36-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | F | F | F | OH | H | H |
| **XVI-36-5** | p-Me-Ph | H | H | $CH_2Ph$ | $^n$Bu | F | F | F | OH | H | H |
| **XVI-36-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | F | F | F | OH | H | H |
| **XVI-36-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | F | F | F | OH | H | H |
| **XVI-36-8** | p-Me-Ph | * | H | * | $^n$Bu | F | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVI-37.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVI-37-1** | p-F-Ph | H | H | H | $^n$Bu | F | F | F | OH | H | H |
| **XVI-37-2** | p-F-Ph | H | H | $CH_3$ | $^n$Bu | F | F | F | OH | H | H |
| **XVI-37-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | F | F | F | OH | H | H |
| **XVI-37-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | F | F | F | OH | H | H |
| **XVI-37-5** | p-F-Ph | H | H | $CH_2Ph$ | $^n$Bu | F | F | F | OH | H | H |
| **XVI-37-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | F | F | F | OH | H | H |
| **XVI-37-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | F | F | F | OH | H | H |
| **XVI-37-8** | p-F-Ph | * | H | * | $^n$Bu | F | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00366

Table XVI-38.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVI-38-1** | p-Cl-Ph | H | H | H | $^n$Bu | F | F | F | OH | H | H |
| **XVI-38-2** | p-Cl-Ph | H | H | $CH_3$ | $^n$Bu | F | F | F | OH | H | H |
| **XVI-38-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | F | F | F | OH | H | H |
| **XVI-38-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | F | F | F | OH | H | H |
| **XVI-38-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $^n$Bu | F | F | F | OH | H | H |
| **XVI-38-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | F | F | F | OH | H | H |
| **XVI-38-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | F | F | F | OH | H | H |
| **XVI-38-8** | p-Cl-Ph | * | H | * | $^n$Bu | F | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVI-39.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVI-39-1** | p-Br-Ph | H | H | H | $^n$Bu | F | F | F | OH | H | H |
| **XVI-39-2** | p-Br-Ph | H | H | $CH_3$ | $^n$Bu | F | F | F | OH | H | H |
| **XVI-39-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | F | F | F | OH | H | H |
| **XVI-39-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | F | F | F | OH | H | H |
| **XVI-39-5** | p-Br-Ph | H | H | $CH_2Ph$ | $^n$Bu | F | F | F | OH | H | H |
| **XVI-39-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | F | F | F | OH | H | H |
| **XVI-39-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | F | F | F | OH | H | H |
| **XVI-39-8** | p-Br-Ph | * | H | * | $^n$Bu | F | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVI-40.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVI-40-1** | p-I-Ph | H | H | H | $^n$Bu | F | F | F | OH | H | H |
| **XVI-40-2** | p-I-Ph | H | H | $CH_3$ | $^n$Bu | F | F | F | OH | H | H |
| **XVI-40-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | F | F | F | OH | H | H |
| **XVI-40-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | F | F | F | OH | H | H |
| **XVI-40-5** | p-I-Ph | H | H | $CH_2Ph$ | $^n$Bu | F | F | F | OH | H | H |
| **XVI-40-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | F | F | F | OH | H | H |
| **XVI-40-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | F | F | F | OH | H | H |
| **XVI-40-8** | p-I-Ph | * | H | * | $^n$Bu | F | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00367

Table XVI-41.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVI-41-1** | $CH_3$ | H | H | H | Bz | F | F | F | OH | H | H |
| **XVI-41-2** | $CH_3$ | H | H | $CH_3$ | Bz | F | F | F | OH | H | H |
| **XVI-41-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | Bz | F | F | F | OH | H | H |
| **XVI-41-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | Bz | F | F | F | OH | H | H |
| **XVI-41-5** | $CH_3$ | H | H | $CH_2Ph$ | Bz | F | F | F | OH | H | H |
| **XVI-41-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | Bz | F | F | F | OH | H | H |
| **XVI-41-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | Bz | F | F | F | OH | H | H |
| **XVI-41-8** | $CH_3$ | * | H | * | Bz | F | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVI-42.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVI-42-1** | Et | H | H | H | Bz | F | F | F | OH | H | H |
| **XVI-42-2** | Et | H | H | $CH_3$ | Bz | F | F | F | OH | H | H |
| **XVI-42-3** | Et | H | H | $CH(CH_3)_2$ | Bz | F | F | F | OH | H | H |
| **XVI-42-4** | Et | H | H | $CH_2CH(CH_3)_2$ | Bz | F | F | F | OH | H | H |
| **XVI-42-5** | Et | H | H | $CH_2Ph$ | Bz | F | F | F | OH | H | H |
| **XVI-42-6** | Et | H | H | $CH_2$-indol-3-yl | Bz | F | F | F | OH | H | H |
| **XVI-42-7** | Et | H | H | $CH_2CH_2SCH_3$ | Bz | F | F | F | OH | H | H |
| **XVI-42-8** | Et | * | H | * | Bz | F | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVI-43.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVI-43-1** | $^i$Pr | H | H | H | Bz | F | F | F | OH | H | H |
| **XVI-43-2** | $^i$Pr | H | H | $CH_3$ | Bz | F | F | F | OH | H | H |
| **XVI-43-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | Bz | F | F | F | OH | H | H |
| **XVI-43-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | Bz | F | F | F | OH | H | H |
| **XVI-43-5** | $^i$Pr | H | H | $CH_2Ph$ | Bz | F | F | F | OH | H | H |
| **XVI-43-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | Bz | F | F | F | OH | H | H |
| **XVI-43-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | Bz | F | F | F | OH | H | H |
| **XVI-43-8** | $^i$Pr | * | H | * | Bz | F | F | F | OH | H | H |



Gilead Exhibit 2024
PGR2023-00046 - Page 00368

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVI-44.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVI-44-1** | $^t$Bu | H | H | H | Bz | F | F | F | OH | H | H |
| **XVI-44-2** | $^t$Bu | H | H | $CH_3$ | Bz | F | F | F | OH | H | H |
| **XVI-44-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | Bz | F | F | F | OH | H | H |
| **XVI-44-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | Bz | F | F | F | OH | H | H |
| **XVI-44-5** | $^t$Bu | H | H | $CH_2Ph$ | Bz | F | F | F | OH | H | H |
| **XVI-44-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | Bz | F | F | F | OH | H | H |
| **XVI-44-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | Bz | F | F | F | OH | H | H |
| **XVI-44-8** | $^t$Bu | * | H | * | Bz | F | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVI-45.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-45-1** | Ph | H | H | H | Bz | F | F | F | OH | H | H |
| **XVII-45-2** | Ph | H | H | $CH_3$ | Bz | F | F | F | OH | H | H |
| **XVII-45-3** | Ph | H | H | $CH(CH_3)_2$ | Bz | F | F | F | OH | H | H |
| **XVII-45-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | F | F | F | OH | H | H |
| **XVII-45-5** | Ph | H | H | $CH_2Ph$ | Bz | F | F | F | OH | H | H |
| **XVII-45-6** | Ph | H | H | $CH_2$-indol-3-yl | Bz | F | F | F | OH | H | H |
| **XVII-45-7** | Ph | H | H | $CH_2CH_2SCH_3$ | Bz | F | F | F | OH | H | H |
| **XVII-45-8** | Ph | * | H | * | Bz | F | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVI-46.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-46-1** | p-Me-Ph | H | H | H | Bz | F | F | F | OH | H | H |
| **XVII-46-2** | p-Me-Ph | H | H | $CH_3$ | Bz | F | F | F | OH | H | H |
| **XVII-46-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | Bz | F | F | F | OH | H | H |
| **XVII-46-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | F | F | F | OH | H | H |
| **XVII-46-5** | p-Me-Ph | H | H | $CH_2Ph$ | Bz | F | F | F | OH | H | H |
| **XVII-46-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | Bz | F | F | F | OH | H | H |
| **XVII-46-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | F | F | F | OH | H | H |



Gilead Exhibit 2024
PGR2023-00046 - Page 00369

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-46-8** | p-Me-Ph | * | H | * | Bz | F | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVI-47.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-47-1** | p-F-Ph | H | H | H | Bz | F | F | F | OH | H | H |
| **XVII-47-2** | p-F-Ph | H | H | $CH_3$ | Bz | F | F | F | OH | H | H |
| **XVII-47-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | Bz | F | F | F | OH | H | H |
| **XVII-47-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | F | F | F | OH | H | H |
| **XVII-47-5** | p-F-Ph | H | H | $CH_2Ph$ | Bz | F | F | F | OH | H | H |
| **XVII-47-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | Bz | F | F | F | OH | H | H |
| **XVII-47-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | F | F | F | OH | H | H |
| **XVII-47-8** | p-F-Ph | * | H | * | Bz | F | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVI-48.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-48-1** | p-Cl-Ph | H | H | H | Bz | F | F | F | OH | H | H |
| **XVII-48-2** | p-Cl-Ph | H | H | $CH_3$ | Bz | F | F | F | OH | H | H |
| **XVII-48-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | Bz | F | F | F | OH | H | H |
| **XVII-48-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | F | F | F | OH | H | H |
| **XVII-48-5** | p-Cl-Ph | H | H | $CH_2Ph$ | Bz | F | F | F | OH | H | H |
| **XVII-48-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | Bz | F | F | F | OH | H | H |
| **XVII-48-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | F | F | F | OH | H | H |
| **XVII-48-8** | p-Cl-Ph | * | H | * | Bz | F | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVI-49.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-49-1** | p-Br-Ph | H | H | H | Bz | F | F | F | OH | H | H |
| **XVII-49-2** | p-Br-Ph | H | H | $CH_3$ | Bz | F | F | F | OH | H | H |
| **XVII-49-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | Bz | F | F | F | OH | H | H |
| **XVII-49-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | F | F | F | OH | H | H |
| **XVII-49-5** | p-Br-Ph | H | H | $CH_2Ph$ | Bz | F | F | F | OH | H | H |



Gilead Exhibit 2024
PGR2023-00046 - Page 00370

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-49-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | Bz | F | F | F | OH | H | H |
| **XVII-49-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | F | F | F | OH | H | H |
| **XVII-49-8** | p-Br-Ph | * | H | * | Bz | F | F | F | OH | H | H |

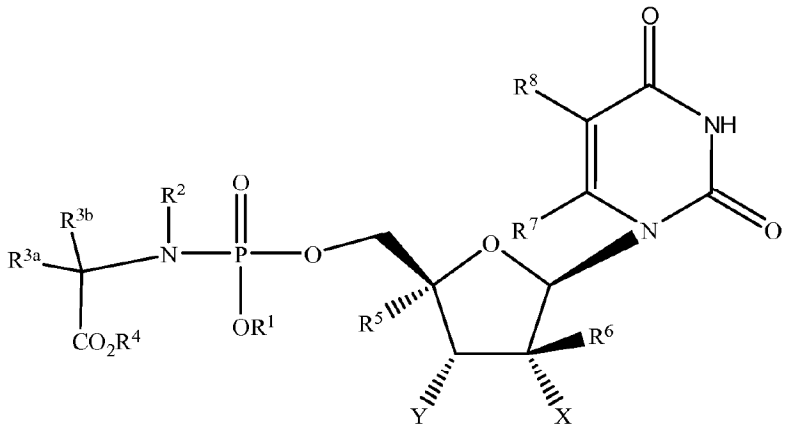
*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVI-50.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-50-1** | p-I-Ph | H | H | H | Bz | F | F | F | OH | H | H |
| **XVII-50-2** | p-I-Ph | H | H | $CH_3$ | Bz | F | F | F | OH | H | H |
| **XVII-50-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | Bz | F | F | F | OH | H | H |
| **XVII-50-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | F | F | F | OH | H | H |
| **XVII-50-5** | p-I-Ph | H | H | $CH_2Ph$ | Bz | F | F | F | OH | H | H |
| **XVII-50-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | Bz | F | F | F | OH | H | H |
| **XVII-50-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | F | F | F | OH | H | H |
| **XVII-50-8** | p-I-Ph | * | H | * | Bz | F | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

5




**XVII**

Table XVII-1.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-1-1** | $CH_3$ | H | H | H | $CH_3$ | F | H | F | OH | H | H |



Gilead Exhibit 2024
PGR2023-00046 - Page 00371

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-1-2** | $CH_3$ | H | H | $CH_3$ | $CH_3$ | F | H | F | OH | H | H |
| **XVII-1-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $CH_3$ | F | H | F | OH | H | H |
| **XVII-1-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | F | H | F | OH | H | H |
| **XVII-1-5** | $CH_3$ | H | H | $CH_2Ph$ | $CH_3$ | F | H | F | OH | H | H |
| **XVII-1-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $CH_3$ | F | H | F | OH | H | H |
| **XVII-1-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | F | H | F | OH | H | H |
| **XVII-1-8** | $CH_3$ | * | H | * | $CH_3$ | F | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVII-2.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-2-1** | Et | H | H | H | $CH_3$ | F | H | F | OH | H | H |
| **XVII-2-2** | Et | H | H | $CH_3$ | $CH_3$ | F | H | F | OH | H | H |
| **XVII-2-3** | Et | H | H | $CH(CH_3)_2$ | $CH_3$ | F | H | F | OH | H | H |
| **XVII-2-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | F | H | F | OH | H | H |
| **XVII-2-5** | Et | H | H | $CH_2Ph$ | $CH_3$ | F | H | F | OH | H | H |
| **XVII-2-6** | Et | H | H | $CH_2$-indol-3-yl | $CH_3$ | F | H | F | OH | H | H |
| **XVII-2-7** | Et | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | F | H | F | OH | H | H |
| **XVII-2-8** | Et | * | H | * | $CH_3$ | F | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVII-3.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-3-1** | $^i$Pr | H | H | H | $CH_3$ | F | H | F | OH | H | H |
| **XVII-3-2** | $^i$Pr | H | H | $CH_3$ | $CH_3$ | F | H | F | OH | H | H |
| **XVII-3-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $CH_3$ | F | H | F | OH | H | H |
| **XVII-3-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | F | H | F | OH | H | H |
| **XVII-3-5** | $^i$Pr | H | H | $CH_2Ph$ | $CH_3$ | F | H | F | OH | H | H |
| **XVII-3-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $CH_3$ | F | H | F | OH | H | H |
| **XVII-3-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | F | H | F | OH | H | H |
| **XVII-3-8** | $^i$Pr | * | H | * | $CH_3$ | F | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVII-4.



Gilead Exhibit 2024
PGR2023-00046 - Page 00372

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-4-1** | $^t$Bu | H | H | H | $CH_3$ | F | H | F | OH | H | H |
| **XVII-4-2** | $^t$Bu | H | H | $CH_3$ | $CH_3$ | F | H | F | OH | H | H |
| **XVII-4-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $CH_3$ | F | H | F | OH | H | H |
| **XVII-4-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | F | H | F | OH | H | H |
| **XVII-4-5** | $^t$Bu | H | H | $CH_2Ph$ | $CH_3$ | F | H | F | OH | H | H |
| **XVII-4-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $CH_3$ | F | H | F | OH | H | H |
| **XVII-4-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | F | H | F | OH | H | H |
| **XVII-4-8** | $^t$Bu | * | H | * | $CH_3$ | F | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVII-5.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-5-1** | Ph | H | H | H | $CH_3$ | F | H | F | OH | H | H |
| **XVII-5-2** | Ph | H | H | $CH_3$ | $CH_3$ | F | H | F | OH | H | H |
| **XVII-5-3** | Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | F | H | F | OH | H | H |
| **XVII-5-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | F | H | F | OH | H | H |
| **XVII-5-5** | Ph | H | H | $CH_2Ph$ | $CH_3$ | F | H | F | OH | H | H |
| **XVII-5-6** | Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | F | H | F | OH | H | H |
| **XVII-5-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | F | H | F | OH | H | H |
| **XVII-5-8** | Ph | * | H | * | $CH_3$ | F | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVII-6.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-6-1** | p-Me-Ph | H | H | H | $CH_3$ | F | H | F | OH | H | H |
| **XVII-6-2** | p-Me-Ph | H | H | $CH_3$ | $CH_3$ | F | H | F | OH | H | H |
| **XVII-6-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | F | H | F | OH | H | H |
| **XVII-6-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | F | H | F | OH | H | H |
| **XVII-6-5** | p-Me-Ph | H | H | $CH_2Ph$ | $CH_3$ | F | H | F | OH | H | H |
| **XVII-6-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | F | H | F | OH | H | H |
| **XVII-6-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | F | H | F | OH | H | H |
| **XVII-6-8** | p-Me-Ph | * | H | * | $CH_3$ | F | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00373

Table XVII-7.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-7-1** | p-F-Ph | H | H | H | $CH_3$ | F | H | F | OH | H | H |
| **XVII-7-2** | p-F-Ph | H | H | $CH_3$ | $CH_3$ | F | H | F | OH | H | H |
| **XVII-7-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | F | H | F | OH | H | H |
| **XVII-7-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | F | H | F | OH | H | H |
| **XVII-7-6** | p-F-Ph | H | H | $CH_2Ph$ | $CH_3$ | F | H | F | OH | H | H |
| **XVII-7-7** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | F | H | F | OH | H | H |
| **XVII-7-8** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | F | H | F | OH | H | H |
| **XVII-7-20** | p-F-Ph | * | H | * | $CH_3$ | F | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVII-8.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-8-1** | p-Cl-Ph | H | H | H | $CH_3$ | F | H | F | OH | H | H |
| **XVII-8-2** | p-Cl-Ph | H | H | $CH_3$ | $CH_3$ | F | H | F | OH | H | H |
| **XVII-8-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | F | H | F | OH | H | H |
| **XVII-8-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | F | H | F | OH | H | H |
| **XVII-8-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $CH_3$ | F | H | F | OH | H | H |
| **XVII-8-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | F | H | F | OH | H | H |
| **XVII-8-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | F | H | F | OH | H | H |
| **XVII-8-8** | p-Cl-Ph | * | H | * | $CH_3$ | F | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVII-9.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-9-1** | p-Br-Ph | H | H | H | $CH_3$ | F | H | F | OH | H | H |
| **XVII-9-2** | p-Br-Ph | H | H | $CH_3$ | $CH_3$ | F | H | F | OH | H | H |
| **XVII-9-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | F | H | F | OH | H | H |
| **XVII-9-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | F | H | F | OH | H | H |
| **XVII-9-6** | p-Br-Ph | H | H | $CH_2Ph$ | $CH_3$ | F | H | F | OH | H | H |
| **XVII-9-7** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | F | H | F | OH | H | H |
| **XVII-9-8** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | F | H | F | OH | H | H |
| **XVII-9-20** | p-Br-Ph | * | H | * | $CH_3$ | F | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00374

Table XVII-10.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-10-1** | p-I-Ph | H | H | H | $CH_3$ | F | H | F | OH | H | H |
| **XVII-10-2** | p-I-Ph | H | H | $CH_3$ | $CH_3$ | F | H | F | OH | H | H |
| **XVII-10-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | F | H | F | OH | H | H |
| **XVII-10-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | F | H | F | OH | H | H |
| **XVII-10-5** | p-I-Ph | H | H | $CH_2Ph$ | $CH_3$ | F | H | F | OH | H | H |
| **XVII-10-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | F | H | F | OH | H | H |
| **XVII-10-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | F | H | F | OH | H | H |
| **XVII-10-8** | p-I-Ph | * | H | * | $CH_3$ | F | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVII-11.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-11-1** | $CH_3$ | H | H | H | Et | F | H | F | OH | H | H |
| **XVII-11-2** | $CH_3$ | H | H | $CH_3$ | Et | F | H | F | OH | H | H |
| **XVII-11-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | Et | F | H | F | OH | H | H |
| **XVII-11-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | Et | F | H | F | OH | H | H |
| **XVII-11-5** | $CH_3$ | H | H | $CH_2Ph$ | Et | F | H | F | OH | H | H |
| **XVII-11-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | Et | F | H | F | OH | H | H |
| **XVII-11-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | Et | F | H | F | OH | H | H |
| **XVII-11-8** | $CH_3$ | * | H | * | Et | F | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVII-12.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-12-1** | Et | H | H | H | Et | F | H | F | OH | H | H |
| **XVII-12-2** | Et | H | H | $CH_3$ | Et | F | H | F | OH | H | H |
| **XVII-12-3** | Et | H | H | $CH(CH_3)_2$ | Et | F | H | F | OH | H | H |
| **XVII-12-4** | Et | H | H | $CH_2CH(CH_3)_2$ | Et | F | H | F | OH | H | H |
| **XVII-12-5** | Et | H | H | $CH_2Ph$ | Et | F | H | F | OH | H | H |
| **XVII-12-6** | Et | H | H | $CH_2$-indol-3-yl | Et | F | H | F | OH | H | H |
| **XVII-12-7** | Et | H | H | $CH_2CH_2SCH_3$ | Et | F | H | F | OH | H | H |
| **XVII-12-8** | Et | * | H | * | Et | F | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00375

Table XVII-13.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-13-1** | $^i$Pr | H | H | H | Et | F | H | F | OH | H | H |
| **XVII-13-2** | $^i$Pr | H | H | $CH_3$ | Et | F | H | F | OH | H | H |
| **XVII-13-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | Et | F | H | F | OH | H | H |
| **XVII-13-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | Et | F | H | F | OH | H | H |
| **XVII-13-5** | $^i$Pr | H | H | $CH_2Ph$ | Et | F | H | F | OH | H | H |
| **XVII-13-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | Et | F | H | F | OH | H | H |
| **XVII-13-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | Et | F | H | F | OH | H | H |
| **XVII-13-8** | $^i$Pr | * | H | * | Et | F | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVII-14.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-14-1** | $^t$Bu | H | H | H | Et | F | H | F | OH | H | H |
| **XVII-14-2** | $^t$Bu | H | H | $CH_3$ | Et | F | H | F | OH | H | H |
| **XVII-14-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | Et | F | H | F | OH | H | H |
| **XVII-14-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | Et | F | H | F | OH | H | H |
| **XVII-14-5** | $^t$Bu | H | H | $CH_2Ph$ | Et | F | H | F | OH | H | H |
| **XVII-14-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | Et | F | H | F | OH | H | H |
| **XVII-14-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | Et | F | H | F | OH | H | H |
| **XVII-14-8** | $^t$Bu | * | H | * | Et | F | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVII-15.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-15-1** | Ph | H | H | H | Et | F | H | F | OH | H | H |
| **XVII-15-2** | Ph | H | H | $CH_3$ | Et | F | H | F | OH | H | H |
| **XVII-15-3** | Ph | H | H | $CH(CH_3)_2$ | Et | F | H | F | OH | H | H |
| **XVII-15-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | Et | F | H | F | OH | H | H |
| **XVII-15-5** | Ph | H | H | $CH_2Ph$ | Et | F | H | F | OH | H | H |
| **XVII-15-6** | Ph | H | H | $CH_2$-indol-3-yl | Et | F | H | F | OH | H | H |
| **XVII-15-7** | Ph | H | H | $CH_2CH_2SCH_3$ | Et | F | H | F | OH | H | H |
| **XVII-15-8** | Ph | * | H | * | Et | F | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00376

Table XVII-16.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-16-1** | p-Me-Ph | H | H | H | Et | F | H | F | OH | H | H |
| **XVII-16-2** | p-Me-Ph | H | H | $CH_3$ | Et | F | H | F | OH | H | H |
| **XVII-16-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | Et | F | H | F | OH | H | H |
| **XVII-16-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | F | H | F | OH | H | H |
| **XVII-16-5** | p-Me-Ph | H | H | $CH_2Ph$ | Et | F | H | F | OH | H | H |
| **XVII-16-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | Et | F | H | F | OH | H | H |
| **XVII-16-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | Et | F | H | F | OH | H | H |
| **XVII-16-8** | p-Me-Ph | * | H | * | Et | F | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVII-17.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-17-1** | p-F-Ph | H | H | H | Et | F | H | F | OH | H | H |
| **XVII-17-2** | p-F-Ph | H | H | $CH_3$ | Et | F | H | F | OH | H | H |
| **XVII-17-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | Et | F | H | F | OH | H | H |
| **XVII-17-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | F | H | F | OH | H | H |
| **XVII-17-5** | p-F-Ph | H | H | $CH_2Ph$ | Et | F | H | F | OH | H | H |
| **XVII-17-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | Et | F | H | F | OH | H | H |
| **XVII-17-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | Et | F | H | F | OH | H | H |
| **XVII-17-8** | p-F-Ph | * | H | * | Et | F | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVII-18.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-18-1** | p-Cl-Ph | H | H | H | Et | F | H | F | OH | H | H |
| **XVII-18-2** | p-Cl-Ph | H | H | $CH_3$ | Et | F | H | F | OH | H | H |
| **XVII-18-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | Et | F | H | F | OH | H | H |
| **XVII-18-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | F | H | F | OH | H | H |
| **XVII-18-5** | p-Cl-Ph | H | H | $CH_2Ph$ | Et | F | H | F | OH | H | H |
| **XVII-18-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | Et | F | H | F | OH | H | H |
| **XVII-18-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | Et | F | H | F | OH | H | H |
| **XVII-18-8** | p-Cl-Ph | * | H | * | Et | F | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00377

Table XVII-19.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-19-1** | p-Br-Ph | H | H | H | Et | F | H | F | OH | H | H |
| **XVII-19-2** | p-Br-Ph | H | H | $CH_3$ | Et | F | H | F | OH | H | H |
| **XVII-19-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | Et | F | H | F | OH | H | H |
| **XVII-19-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | F | H | F | OH | H | H |
| **XVII-19-5** | p-Br-Ph | H | H | $CH_2Ph$ | Et | F | H | F | OH | H | H |
| **XVII-19-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | Et | F | H | F | OH | H | H |
| **XVII-19-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | Et | F | H | F | OH | H | H |
| **XVII-19-8** | p-Br-Ph | * | H | * | Et | F | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVII-20.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-20-1** | p-I-Ph | H | H | H | Et | F | H | F | OH | H | H |
| **XVII-20-2** | p-I-Ph | H | H | $CH_3$ | Et | F | H | F | OH | H | H |
| **XVII-20-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | Et | F | H | F | OH | H | H |
| **XVII-20-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | F | H | F | OH | H | H |
| **XVII-20-5** | p-I-Ph | H | H | $CH_2Ph$ | Et | F | H | F | OH | H | H |
| **XVII-20-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | Et | F | H | F | OH | H | H |
| **XVII-20-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | Et | F | H | F | OH | H | H |
| **XVII-20-8** | p-I-Ph | * | H | * | Et | F | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVII-21.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-21-1** | $CH_3$ | H | H | H | $^i$Pr | F | H | F | OH | H | H |
| **XVII-21-2** | $CH_3$ | H | H | $CH_3$ | $^i$Pr | F | H | F | OH | H | H |
| **XVII-21-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $^i$Pr | F | H | F | OH | H | H |
| **XVII-21-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | F | H | F | OH | H | H |
| **XVII-21-5** | $CH_3$ | H | H | $CH_2Ph$ | $^i$Pr | F | H | F | OH | H | H |
| **XVII-21-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $^i$Pr | F | H | F | OH | H | H |
| **XVII-21-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | F | H | F | OH | H | H |
| **XVII-21-8** | $CH_3$ | * | H | * | $^i$Pr | F | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00378

Table XVII-22.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-22-1** | Et | H | H | H | $^i$Pr | F | H | F | OH | H | H |
| **XVII-22-2** | Et | H | H | $CH_3$ | $^i$Pr | F | H | F | OH | H | H |
| **XVII-22-3** | Et | H | H | $CH(CH_3)_2$ | $^i$Pr | F | H | F | OH | H | H |
| **XVII-22-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | F | H | F | OH | H | H |
| **XVII-22-5** | Et | H | H | $CH_2Ph$ | $^i$Pr | F | H | F | OH | H | H |
| **XVII-22-6** | Et | H | H | $CH_2$-indol-3-yl | $^i$Pr | F | H | F | OH | H | H |
| **XVII-22-7** | Et | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | F | H | F | OH | H | H |
| **XVII-22-8** | Et | * | H | * | $^i$Pr | F | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVII-23.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-23-1** | $^i$Pr | H | H | H | $^i$Pr | F | H | F | OH | H | H |
| **XVII-23-2** | $^i$Pr | H | H | $CH_3$ | $^i$Pr | F | H | F | OH | H | H |
| **XVII-23-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $^i$Pr | F | H | F | OH | H | H |
| **XVII-23-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | F | H | F | OH | H | H |
| **XVII-23-5** | $^i$Pr | H | H | $CH_2Ph$ | $^i$Pr | F | H | F | OH | H | H |
| **XVII-23-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $^i$Pr | F | H | F | OH | H | H |
| **XVII-23-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | F | H | F | OH | H | H |
| **XVII-23-8** | $^i$Pr | * | H | * | $^i$Pr | F | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVII-24.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-24-1** | $^t$Bu | H | H | H | $^i$Pr | F | H | F | OH | H | H |
| **XVII-24-2** | $^t$Bu | H | H | $CH_3$ | $^i$Pr | F | H | F | OH | H | H |
| **XVII-24-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $^i$Pr | F | H | F | OH | H | H |
| **XVII-24-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | F | H | F | OH | H | H |
| **XVII-24-5** | $^t$Bu | H | H | $CH_2Ph$ | $^i$Pr | F | H | F | OH | H | H |
| **XVII-24-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $^i$Pr | F | H | F | OH | H | H |
| **XVII-24-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | F | H | F | OH | H | H |
| **XVII-24-8** | $^t$Bu | * | H | * | $^i$Pr | F | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00379

Table XVII-25.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-25-1** | Ph | H | H | H | $^i$Pr | F | H | F | OH | H | H |
| **XVII-25-2** | Ph | H | H | $CH_3$ | $^i$Pr | F | H | F | OH | H | H |
| **XVII-25-3** | Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | F | H | F | OH | H | H |
| **XVII-25-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | F | H | F | OH | H | H |
| **XVII-25-5** | Ph | H | H | $CH_2Ph$ | $^i$Pr | F | H | F | OH | H | H |
| **XVII-25-6** | Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | F | H | F | OH | H | H |
| **XVII-25-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | F | H | F | OH | H | H |
| **XVII-25-8** | Ph | * | H | * | $^i$Pr | F | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVII-26.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-26-1** | p-Me-Ph | H | H | H | $^i$Pr | F | H | F | OH | H | H |
| **XVII-26-2** | p-Me-Ph | H | H | $CH_3$ | $^i$Pr | F | H | F | OH | H | H |
| **XVII-26-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | F | H | F | OH | H | H |
| **XVII-26-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | F | H | F | OH | H | H |
| **XVII-26-5** | p-Me-Ph | H | H | $CH_2Ph$ | $^i$Pr | F | H | F | OH | H | H |
| **XVII-26-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | F | H | F | OH | H | H |
| **XVII-26-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | F | H | F | OH | H | H |
| **XVII-26-8** | p-Me-Ph | * | H | * | $^i$Pr | F | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVII-27.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-27-1** | p-F-Ph | H | H | H | $^i$Pr | F | H | F | OH | H | H |
| **XVII-27-2** | p-F-Ph | H | H | $CH_3$ | $^i$Pr | F | H | F | OH | H | H |
| **XVII-27-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | F | H | F | OH | H | H |
| **XVII-27-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | F | H | F | OH | H | H |
| **XVII-27-5** | p-F-Ph | H | H | $CH_2Ph$ | $^i$Pr | F | H | F | OH | H | H |
| **XVII-27-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | F | H | F | OH | H | H |
| **XVII-27-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | F | H | F | OH | H | H |
| **XVII-27-8** | p-F-Ph | * | H | * | $^i$Pr | F | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00380

Table XVII-28.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-28-1** | p-Cl-Ph | H | H | H | $^i$Pr | F | H | F | OH | H | H |
| **XVII-28-2** | p-Cl-Ph | H | H | $CH_3$ | $^i$Pr | F | H | F | OH | H | H |
| **XVII-28-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | F | H | F | OH | H | H |
| **XVII-28-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | F | H | F | OH | H | H |
| **XVII-28-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $^i$Pr | F | H | F | OH | H | H |
| **XVII-28-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | F | H | F | OH | H | H |
| **XVII-28-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | F | H | F | OH | H | H |
| **XVII-28-8** | p-Cl-Ph | * | H | * | $^i$Pr | F | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVII-29.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-29-1** | p-Br-Ph | H | H | H | $^i$Pr | F | H | F | OH | H | H |
| **XVII-29-2** | p-Br-Ph | H | H | $CH_3$ | $^i$Pr | F | H | F | OH | H | H |
| **XVII-29-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | F | H | F | OH | H | H |
| **XVII-29-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | F | H | F | OH | H | H |
| **XVII-29-5** | p-Br-Ph | H | H | $CH_2Ph$ | $^i$Pr | F | H | F | OH | H | H |
| **XVII-29-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | F | H | F | OH | H | H |
| **XVII-29-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | F | H | F | OH | H | H |
| **XVII-29-8** | p-Br-Ph | * | H | * | $^i$Pr | F | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVII-30.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-30-1** | p-I-Ph | H | H | H | $^i$Pr | F | H | F | OH | H | H |
| **XVII-30-2** | p-I-Ph | H | H | $CH_3$ | $^i$Pr | F | H | F | OH | H | H |
| **XVII-30-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | F | H | F | OH | H | H |
| **XVII-30-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | F | H | F | OH | H | H |
| **XVII-30-5** | p-I-Ph | H | H | $CH_2Ph$ | $^i$Pr | F | H | F | OH | H | H |
| **XVII-30-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | F | H | F | OH | H | H |
| **XVII-30-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | F | H | F | OH | H | H |
| **XVII-30-8** | p-I-Ph | * | H | * | $^i$Pr | F | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00381

Table XVII-31.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-31-1** | $CH_3$ | H | H | H | $^n$Bu | F | H | F | OH | H | H |
| **XVII-31-2** | $CH_3$ | H | H | $CH_3$ | $^n$Bu | F | H | F | OH | H | H |
| **XVII-31-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $^n$Bu | F | H | F | OH | H | H |
| **XVII-31-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | F | H | F | OH | H | H |
| **XVII-31-5** | $CH_3$ | H | H | $CH_2Ph$ | $^n$Bu | F | H | F | OH | H | H |
| **XVII-31-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $^n$Bu | F | H | F | OH | H | H |
| **XVII-31-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | F | H | F | OH | H | H |
| **XVII-31-8** | $CH_3$ | * | H | * | $^n$Bu | F | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVII-32.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-32-1** | Et | H | H | H | $^n$Bu | F | H | F | OH | H | H |
| **XVII-32-2** | Et | H | H | $CH_3$ | $^n$Bu | F | H | F | OH | H | H |
| **XVII-32-3** | Et | H | H | $CH(CH_3)_2$ | $^n$Bu | F | H | F | OH | H | H |
| **XVII-32-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | F | H | F | OH | H | H |
| **XVII-32-5** | Et | H | H | $CH_2Ph$ | $^n$Bu | F | H | F | OH | H | H |
| **XVII-32-6** | Et | H | H | $CH_2$-indol-3-yl | $^n$Bu | F | H | F | OH | H | H |
| **XVII-32-7** | Et | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | F | H | F | OH | H | H |
| **XVII-32-8** | Et | * | H | * | $^n$Bu | F | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVII-33.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-33-1** | $^i$Pr | H | H | H | $^n$Bu | F | H | F | OH | H | H |
| **XVII-33-2** | $^i$Pr | H | H | $CH_3$ | $^n$Bu | F | H | F | OH | H | H |
| **XVII-33-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $^n$Bu | F | H | F | OH | H | H |
| **XVII-33-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | F | H | F | OH | H | H |
| **XVII-33-5** | $^i$Pr | H | H | $CH_2Ph$ | $^n$Bu | F | H | F | OH | H | H |
| **XVII-33-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $^n$Bu | F | H | F | OH | H | H |
| **XVII-33-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | F | H | F | OH | H | H |
| **XVII-33-8** | $^i$Pr | * | H | * | $^n$Bu | F | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00382

Table XVII-34.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-34-1** | $^t$Bu | H | H | H | $^n$Bu | F | H | F | OH | H | H |
| **XVII-34-2** | $^t$Bu | H | H | $CH_3$ | $^n$Bu | F | H | F | OH | H | H |
| **XVII-34-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $^n$Bu | F | H | F | OH | H | H |
| **XVII-34-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | F | H | F | OH | H | H |
| **XVII-34-5** | $^t$Bu | H | H | $CH_2Ph$ | $^n$Bu | F | H | F | OH | H | H |
| **XVII-34-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $^n$Bu | F | H | F | OH | H | H |
| **XVII-34-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | F | H | F | OH | H | H |
| **XVII-34-8** | $^t$Bu | * | H | * | $^n$Bu | F | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVII-35.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-35-1** | Ph | H | H | H | $^n$Bu | F | H | F | OH | H | H |
| **XVII-35-2** | Ph | H | H | $CH_3$ | $^n$Bu | F | H | F | OH | H | H |
| **XVII-35-3** | Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | F | H | F | OH | H | H |
| **XVII-35-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | F | H | F | OH | H | H |
| **XVII-35-5** | Ph | H | H | $CH_2Ph$ | $^n$Bu | F | H | F | OH | H | H |
| **XVII-35-6** | Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | F | H | F | OH | H | H |
| **XVII-35-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | F | H | F | OH | H | H |
| **XVII-35-8** | Ph | * | H | * | $^n$Bu | F | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVII-36.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-36-1** | p-Me-Ph | H | H | H | $^n$Bu | F | H | F | OH | H | H |
| **XVII-36-2** | p-Me-Ph | H | H | $CH_3$ | $^n$Bu | F | H | F | OH | H | H |
| **XVII-36-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | F | H | F | OH | H | H |
| **XVII-36-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | F | H | F | OH | H | H |
| **XVII-36-5** | p-Me-Ph | H | H | $CH_2Ph$ | $^n$Bu | F | H | F | OH | H | H |
| **XVII-36-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | F | H | F | OH | H | H |
| **XVII-36-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | F | H | F | OH | H | H |
| **XVII-36-8** | p-Me-Ph | * | H | * | $^n$Bu | F | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00383

Table XVII-37.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-37-1** | p-F-Ph | H | H | H | $^n$Bu | F | H | F | OH | H | H |
| **XVII-37-2** | p-F-Ph | H | H | $CH_3$ | $^n$Bu | F | H | F | OH | H | H |
| **XVII-37-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | F | H | F | OH | H | H |
| **XVII-37-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | F | H | F | OH | H | H |
| **XVII-37-5** | p-F-Ph | H | H | $CH_2Ph$ | $^n$Bu | F | H | F | OH | H | H |
| **XVII-37-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | F | H | F | OH | H | H |
| **XVII-37-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | F | H | F | OH | H | H |
| **XVII-37-8** | p-F-Ph | * | H | * | $^n$Bu | F | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVII-38.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-38-1** | p-Cl-Ph | H | H | H | $^n$Bu | F | H | F | OH | H | H |
| **XVII-38-2** | p-Cl-Ph | H | H | $CH_3$ | $^n$Bu | F | H | F | OH | H | H |
| **XVII-38-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | F | H | F | OH | H | H |
| **XVII-38-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | F | H | F | OH | H | H |
| **XVII-38-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $^n$Bu | F | H | F | OH | H | H |
| **XVII-38-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | F | H | F | OH | H | H |
| **XVII-38-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | F | H | F | OH | H | H |
| **XVII-38-8** | p-Cl-Ph | * | H | * | $^n$Bu | F | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVII-39.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-39-1** | p-Br-Ph | H | H | H | $^n$Bu | F | H | F | OH | H | H |
| **XVII-39-2** | p-Br-Ph | H | H | $CH_3$ | $^n$Bu | F | H | F | OH | H | H |
| **XVII-39-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | F | H | F | OH | H | H |
| **XVII-39-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | F | H | F | OH | H | H |
| **XVII-39-5** | p-Br-Ph | H | H | $CH_2Ph$ | $^n$Bu | F | H | F | OH | H | H |
| **XVII-39-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | F | H | F | OH | H | H |
| **XVII-39-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | F | H | F | OH | H | H |
| **XVII-39-8** | p-Br-Ph | * | H | * | $^n$Bu | F | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00384

Table XVII-40.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-40-1** | p-I-Ph | H | H | H | $^n$Bu | F | H | F | OH | H | H |
| **XVII-40-2** | p-I-Ph | H | H | $CH_3$ | $^n$Bu | F | H | F | OH | H | H |
| **XVII-40-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | F | H | F | OH | H | H |
| **XVII-40-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | F | H | F | OH | H | H |
| **XVII-40-5** | p-I-Ph | H | H | $CH_2Ph$ | $^n$Bu | F | H | F | OH | H | H |
| **XVII-40-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | F | H | F | OH | H | H |
| **XVII-40-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | F | H | F | OH | H | H |
| **XVII-40-8** | p-I-Ph | * | H | * | $^n$Bu | F | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVII-41.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-41-1** | $CH_3$ | H | H | H | Bz | F | H | F | OH | H | H |
| **XVII-41-2** | $CH_3$ | H | H | $CH_3$ | Bz | F | H | F | OH | H | H |
| **XVII-41-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | Bz | F | H | F | OH | H | H |
| **XVII-41-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | Bz | F | H | F | OH | H | H |
| **XVII-41-5** | $CH_3$ | H | H | $CH_2Ph$ | Bz | F | H | F | OH | H | H |
| **XVII-41-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | Bz | F | H | F | OH | H | H |
| **XVII-41-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | Bz | F | H | F | OH | H | H |
| **XVII-41-8** | $CH_3$ | * | H | * | Bz | F | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVII-42.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-42-1** | Et | H | H | H | Bz | F | H | F | OH | H | H |
| **XVII-42-2** | Et | H | H | $CH_3$ | Bz | F | H | F | OH | H | H |
| **XVII-42-3** | Et | H | H | $CH(CH_3)_2$ | Bz | F | H | F | OH | H | H |
| **XVII-42-4** | Et | H | H | $CH_2CH(CH_3)_2$ | Bz | F | H | F | OH | H | H |
| **XVII-42-5** | Et | H | H | $CH_2Ph$ | Bz | F | H | F | OH | H | H |
| **XVII-42-6** | Et | H | H | $CH_2$-indol-3-yl | Bz | F | H | F | OH | H | H |
| **XVII-42-7** | Et | H | H | $CH_2CH_2SCH_3$ | Bz | F | H | F | OH | H | H |
| **XVII-42-8** | Et | * | H | * | Bz | F | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00385

Table XVII-43.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-43-1** | $^i$Pr | H | H | H | Bz | F | H | F | OH | H | H |
| **XVII-43-2** | $^i$Pr | H | H | $CH_3$ | Bz | F | H | F | OH | H | H |
| **XVII-43-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | Bz | F | H | F | OH | H | H |
| **XVII-43-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | Bz | F | H | F | OH | H | H |
| **XVII-43-5** | $^i$Pr | H | H | $CH_2Ph$ | Bz | F | H | F | OH | H | H |
| **XVII-43-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | Bz | F | H | F | OH | H | H |
| **XVII-43-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | Bz | F | H | F | OH | H | H |
| **XVII-43-8** | $^i$Pr | * | H | * | Bz | F | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVII-44.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-44-1** | $^t$Bu | H | H | H | Bz | F | H | F | OH | H | H |
| **XVII-44-2** | $^t$Bu | H | H | $CH_3$ | Bz | F | H | F | OH | H | H |
| **XVII-44-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | Bz | F | H | F | OH | H | H |
| **XVII-44-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | Bz | F | H | F | OH | H | H |
| **XVII-44-5** | $^t$Bu | H | H | $CH_2Ph$ | Bz | F | H | F | OH | H | H |
| **XVII-44-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | Bz | F | H | F | OH | H | H |
| **XVII-44-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | Bz | F | H | F | OH | H | H |
| **XVII-44-8** | $^t$Bu | * | H | * | Bz | F | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVII-45.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-45-1** | Ph | H | H | H | Bz | F | H | F | OH | H | H |
| **XVII-45-2** | Ph | H | H | $CH_3$ | Bz | F | H | F | OH | H | H |
| **XVII-45-3** | Ph | H | H | $CH(CH_3)_2$ | Bz | F | H | F | OH | H | H |
| **XVII-45-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | F | H | F | OH | H | H |
| **XVII-45-5** | Ph | H | H | $CH_2Ph$ | Bz | F | H | F | OH | H | H |
| **XVII-45-6** | Ph | H | H | $CH_2$-indol-3-yl | Bz | F | H | F | OH | H | H |
| **XVII-45-7** | Ph | H | H | $CH_2CH_2SCH_3$ | Bz | F | H | F | OH | H | H |
| **XVII-45-8** | Ph | * | H | * | Bz | F | H | F | OH | H | H |



Gilead Exhibit 2024
PGR2023-00046 - Page 00386

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVII-46.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-46-1** | p-Me-Ph | H | H | H | Bz | F | H | F | OH | H | H |
| **XVII-46-2** | p-Me-Ph | H | H | $CH_3$ | Bz | F | H | F | OH | H | H |
| **XVII-46-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | Bz | F | H | F | OH | H | H |
| **XVII-46-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | F | H | F | OH | H | H |
| **XVII-46-5** | p-Me-Ph | H | H | $CH_2Ph$ | Bz | F | H | F | OH | H | H |
| **XVII-46-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | Bz | F | H | F | OH | H | H |
| **XVII-46-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | F | H | F | OH | H | H |
| **XVII-46-8** | p-Me-Ph | * | H | * | Bz | F | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVII-47.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-47-1** | p-F-Ph | H | H | H | Bz | F | H | F | OH | H | H |
| **XVII-47-2** | p-F-Ph | H | H | $CH_3$ | Bz | F | H | F | OH | H | H |
| **XVII-47-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | Bz | F | H | F | OH | H | H |
| **XVII-47-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | F | H | F | OH | H | H |
| **XVII-47-5** | p-F-Ph | H | H | $CH_2Ph$ | Bz | F | H | F | OH | H | H |
| **XVII-47-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | Bz | F | H | F | OH | H | H |
| **XVII-47-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | F | H | F | OH | H | H |
| **XVII-47-8** | p-F-Ph | * | H | * | Bz | F | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVII-48.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-48-1** | p-Cl-Ph | H | H | H | Bz | F | H | F | OH | H | H |
| **XVII-48-2** | p-Cl-Ph | H | H | $CH_3$ | Bz | F | H | F | OH | H | H |
| **XVII-48-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | Bz | F | H | F | OH | H | H |
| **XVII-48-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | F | H | F | OH | H | H |
| **XVII-48-5** | p-Cl-Ph | H | H | $CH_2Ph$ | Bz | F | H | F | OH | H | H |
| **XVII-48-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | Bz | F | H | F | OH | H | H |
| **XVII-48-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | F | H | F | OH | H | H |



Gilead Exhibit 2024
PGR2023-00046 - Page 00387

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-48-8** | p-Cl-Ph | * | H | * | Bz | F | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVII-49.

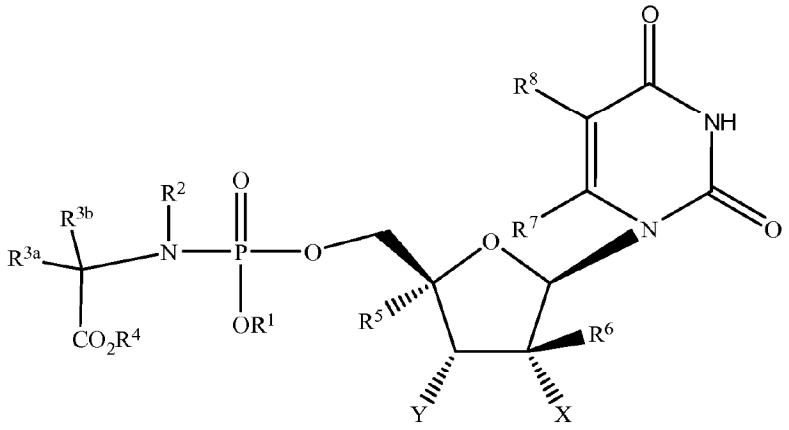
| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-49-1** | p-Br-Ph | H | H | H | Bz | F | H | F | OH | H | H |
| **XVII-49-2** | p-Br-Ph | H | H | $CH_3$ | Bz | F | H | F | OH | H | H |
| **XVII-49-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | Bz | F | H | F | OH | H | H |
| **XVII-49-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | F | H | F | OH | H | H |
| **XVII-49-5** | p-Br-Ph | H | H | $CH_2Ph$ | Bz | F | H | F | OH | H | H |
| **XVII-49-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | Bz | F | H | F | OH | H | H |
| **XVII-49-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | F | H | F | OH | H | H |
| **XVII-49-8** | p-Br-Ph | * | H | * | Bz | F | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVII-50.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVII-50-1** | p-I-Ph | H | H | H | Bz | F | H | F | OH | H | H |
| **XVII-50-2** | p-I-Ph | H | H | $CH_3$ | Bz | F | H | F | OH | H | H |
| **XVII-50-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | Bz | F | H | F | OH | H | H |
| **XVII-50-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | F | H | F | OH | H | H |
| **XVII-50-5** | p-I-Ph | H | H | $CH_2Ph$ | Bz | F | H | F | OH | H | H |
| **XVII-50-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | Bz | F | H | F | OH | H | H |
| **XVII-50-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | F | H | F | OH | H | H |
| **XVII-50-8** | p-I-Ph | * | H | * | Bz | F | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



**XVIII**

Table XVIII-1.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-1-1** | $CH_3$ | H | H | H | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-1-2** | $CH_3$ | H | H | $CH_3$ | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-1-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-1-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-1-5** | $CH_3$ | H | H | $CH_2Ph$ | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-1-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-1-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-1-8** | $CH_3$ | * | H | * | $CH_3$ | $OCH_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVIII-2.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-2-1** | Et | H | H | H | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-2-2** | Et | H | H | $CH_3$ | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-2-3** | Et | H | H | $CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-2-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-2-5** | Et | H | H | $CH_2Ph$ | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-2-6** | Et | H | H | $CH_2$-indol-3-yl | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-2-7** | Et | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-2-8** | Et | * | H | * | $CH_3$ | $OCH_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00389

Table XVIII-3.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-3-1** | $^i$Pr | H | H | H | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-3-2** | $^i$Pr | H | H | $CH_3$ | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-3-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-3-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-3-5** | $^i$Pr | H | H | $CH_2Ph$ | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-3-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-3-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-3-8** | $^i$Pr | * | H | * | $CH_3$ | $OCH_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVIII-4.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-4-1** | $^t$Bu | H | H | H | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-4-2** | $^t$Bu | H | H | $CH_3$ | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-4-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-4-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-4-5** | $^t$Bu | H | H | $CH_2Ph$ | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-4-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-4-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-4-8** | $^t$Bu | * | H | * | $CH_3$ | $OCH_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVIII-5.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-5-1** | Ph | H | H | H | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-5-2** | Ph | H | H | $CH_3$ | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-5-3** | Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-5-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-5-5** | Ph | H | H | $CH_2Ph$ | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-5-6** | Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-5-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-5-8** | Ph | * | H | * | $CH_3$ | $OCH_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00390

Table XVIII-6.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-6-1** | p-Me-Ph | H | H | H | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-6-2** | p-Me-Ph | H | H | $CH_3$ | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-6-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-6-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-6-5** | p-Me-Ph | H | H | $CH_2Ph$ | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-6-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-6-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-6-8** | p-Me-Ph | * | H | * | $CH_3$ | $OCH_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVIII-7.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-7-1** | p-F-Ph | H | H | H | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-7-2** | p-F-Ph | H | H | $CH_3$ | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-7-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-7-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-7-6** | p-F-Ph | H | H | $CH_2Ph$ | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-7-7** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-7-8** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-7-20** | p-F-Ph | * | H | * | $CH_3$ | $OCH_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVIII-8.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-8-1** | p-Cl-Ph | H | H | H | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-8-2** | p-Cl-Ph | H | H | $CH_3$ | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-8-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-8-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-8-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-8-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-8-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-8-8** | p-Cl-Ph | * | H | * | $CH_3$ | $OCH_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00391

Table XVIII-9.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-9-1** | p-Br-Ph | H | H | H | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-9-2** | p-Br-Ph | H | H | $CH_3$ | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-9-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-9-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-9-6** | p-Br-Ph | H | H | $CH_2Ph$ | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-9-7** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-9-8** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-9-20** | p-Br-Ph | * | H | * | $CH_3$ | $OCH_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVIII-10.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-10-1** | p-I-Ph | H | H | H | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-10-2** | p-I-Ph | H | H | $CH_3$ | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-10-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-10-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-10-5** | p-I-Ph | H | H | $CH_2Ph$ | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-10-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-10-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | $OCH_3$ | F | H | OH | H | H |
| **XVIII-10-8** | p-I-Ph | * | H | * | $CH_3$ | $OCH_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVIII-11.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-11-1** | $CH_3$ | H | H | H | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-11-2** | $CH_3$ | H | H | $CH_3$ | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-11-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-11-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-11-5** | $CH_3$ | H | H | $CH_2Ph$ | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-11-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-11-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-11-8** | $CH_3$ | * | H | * | Et | $OCH_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00392

Table XVIII-12.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-12-1** | Et | H | H | H | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-12-2** | Et | H | H | $CH_3$ | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-12-3** | Et | H | H | $CH(CH_3)_2$ | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-12-4** | Et | H | H | $CH_2CH(CH_3)_2$ | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-12-5** | Et | H | H | $CH_2Ph$ | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-12-6** | Et | H | H | $CH_2$-indol-3-yl | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-12-7** | Et | H | H | $CH_2CH_2SCH_3$ | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-12-8** | Et | * | H | * | Et | $OCH_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVIII-13.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-13-1** | $^i$Pr | H | H | H | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-13-2** | $^i$Pr | H | H | $CH_3$ | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-13-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-13-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-13-5** | $^i$Pr | H | H | $CH_2Ph$ | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-13-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-13-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-13-8** | $^i$Pr | * | H | * | Et | $OCH_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVIII-14.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-14-1** | $^t$Bu | H | H | H | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-14-2** | $^t$Bu | H | H | $CH_3$ | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-14-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-14-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-14-5** | $^t$Bu | H | H | $CH_2Ph$ | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-14-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-14-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-14-8** | $^t$Bu | * | H | * | Et | $OCH_3$ | F | H | OH | H | H |



Gilead Exhibit 2024
PGR2023-00046 - Page 00393

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVIII-15.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-15-1** | Ph | H | H | H | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-15-2** | Ph | H | H | $CH_3$ | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-15-3** | Ph | H | H | $CH(CH_3)_2$ | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-15-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-15-5** | Ph | H | H | $CH_2Ph$ | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-15-6** | Ph | H | H | $CH_2$-indol-3-yl | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-15-7** | Ph | H | H | $CH_2CH_2SCH_3$ | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-15-8** | Ph | * | H | * | Et | $OCH_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVIII-16.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-16-1** | p-Me-Ph | H | H | H | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-16-2** | p-Me-Ph | H | H | $CH_3$ | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-16-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-16-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-16-5** | p-Me-Ph | H | H | $CH_2Ph$ | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-16-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-16-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-16-8** | p-Me-Ph | * | H | * | Et | $OCH_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVIII-17.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-17-1** | p-F-Ph | H | H | H | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-17-2** | p-F-Ph | H | H | $CH_3$ | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-17-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-17-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-17-5** | p-F-Ph | H | H | $CH_2Ph$ | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-17-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-17-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | Et | $OCH_3$ | F | H | OH | H | H |



Gilead Exhibit 2024
PGR2023-00046 - Page 00394

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-17-8** | p-F-Ph | * | H | * | Et | $OCH_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVIII-18.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-18-1** | p-Cl-Ph | H | H | H | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-18-2** | p-Cl-Ph | H | H | $CH_3$ | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-18-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-18-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-18-5** | p-Cl-Ph | H | H | $CH_2Ph$ | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-18-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-18-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-18-8** | p-Cl-Ph | * | H | * | Et | $OCH_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVIII-19.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-19-1** | p-Br-Ph | H | H | H | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-19-2** | p-Br-Ph | H | H | $CH_3$ | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-19-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-19-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-19-5** | p-Br-Ph | H | H | $CH_2Ph$ | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-19-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-19-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-19-8** | p-Br-Ph | * | H | * | Et | $OCH_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVIII-20.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-20-1** | p-I-Ph | H | H | H | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-20-2** | p-I-Ph | H | H | $CH_3$ | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-20-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-20-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-20-5** | p-I-Ph | H | H | $CH_2Ph$ | Et | $OCH_3$ | F | H | OH | H | H |



Gilead Exhibit 2024
PGR2023-00046 - Page 00395

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-20-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-20-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | Et | $OCH_3$ | F | H | OH | H | H |
| **XVIII-20-8** | p-I-Ph | * | H | * | Et | $OCH_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVIII-21.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-21-1** | $CH_3$ | H | H | H | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-21-2** | $CH_3$ | H | H | $CH_3$ | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-21-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-21-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-21-5** | $CH_3$ | H | H | $CH_2Ph$ | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-21-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-21-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-21-8** | $CH_3$ | * | H | * | $^i$Pr | $OCH_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVIII-22.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-22-1** | Et | H | H | H | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-22-2** | Et | H | H | $CH_3$ | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-22-3** | Et | H | H | $CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-22-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-22-5** | Et | H | H | $CH_2Ph$ | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-22-6** | Et | H | H | $CH_2$-indol-3-yl | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-22-7** | Et | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-22-8** | Et | * | H | * | $^i$Pr | $OCH_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVIII-23.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-23-1** | $^i$Pr | H | H | H | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-23-2** | $^i$Pr | H | H | $CH_3$ | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-23-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | F | H | OH | H | H |



Gilead Exhibit 2024
PGR2023-00046 - Page 00396

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-23-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-23-5** | $^i$Pr | H | H | $CH_2Ph$ | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-23-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-23-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-23-8** | $^i$Pr | * | H | * | $^i$Pr | $OCH_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVIII-24.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-24-1** | $^t$Bu | H | H | H | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-24-2** | $^t$Bu | H | H | $CH_3$ | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-24-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-24-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-24-5** | $^t$Bu | H | H | $CH_2Ph$ | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-24-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-24-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-24-8** | $^t$Bu | * | H | * | $^i$Pr | $OCH_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVIII-25.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-25-1** | Ph | H | H | H | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-25-2** | Ph | H | H | $CH_3$ | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-25-3** | Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-25-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-25-5** | Ph | H | H | $CH_2Ph$ | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-25-6** | Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-25-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-25-8** | Ph | * | H | * | $^i$Pr | $OCH_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVIII-26.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-26-1** | p-Me-Ph | H | H | H | $^i$Pr | $OCH_3$ | F | H | OH | H | H |



Gilead Exhibit 2024
PGR2023-00046 - Page 00397

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-26-2** | p-Me-Ph | H | H | $CH_3$ | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-26-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-26-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-26-5** | p-Me-Ph | H | H | $CH_2Ph$ | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-26-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-26-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-26-8** | p-Me-Ph | * | H | * | $^i$Pr | $OCH_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVIII-27.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-27-1** | p-F-Ph | H | H | H | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-27-2** | p-F-Ph | H | H | $CH_3$ | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-27-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-27-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-27-5** | p-F-Ph | H | H | $CH_2Ph$ | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-27-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-27-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-27-8** | p-F-Ph | * | H | * | $^i$Pr | $OCH_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVIII-28.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-28-1** | p-Cl-Ph | H | H | H | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-28-2** | p-Cl-Ph | H | H | $CH_3$ | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-28-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-28-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-28-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-28-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-28-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-28-8** | p-Cl-Ph | * | H | * | $^i$Pr | $OCH_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVIII-29.



Gilead Exhibit 2024
PGR2023-00046 - Page 00398

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-29-1** | p-Br-Ph | H | H | H | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-29-2** | p-Br-Ph | H | H | $CH_3$ | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-29-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-29-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-29-5** | p-Br-Ph | H | H | $CH_2Ph$ | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-29-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-29-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-29-8** | p-Br-Ph | * | H | * | $^i$Pr | $OCH_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVIII-30.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-30-1** | p-I-Ph | H | H | H | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-30-2** | p-I-Ph | H | H | $CH_3$ | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-30-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-30-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-30-5** | p-I-Ph | H | H | $CH_2Ph$ | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-30-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-30-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $OCH_3$ | F | H | OH | H | H |
| **XVIII-30-8** | p-I-Ph | * | H | * | $^i$Pr | $OCH_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVIII-31.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-31-1** | $CH_3$ | H | H | H | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-31-2** | $CH_3$ | H | H | $CH_3$ | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-31-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-31-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-31-5** | $CH_3$ | H | H | $CH_2Ph$ | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-31-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-31-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-31-8** | $CH_3$ | * | H | * | $^n$Bu | $OCH_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00399

Table XVIII-32.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-32-1** | Et | H | H | H | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-32-2** | Et | H | H | $CH_3$ | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-32-3** | Et | H | H | $CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-32-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-32-5** | Et | H | H | $CH_2Ph$ | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-32-6** | Et | H | H | $CH_2$-indol-3-yl | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-32-7** | Et | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-32-8** | Et | * | H | * | $^n$Bu | $OCH_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVIII-33.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-33-1** | $^i$Pr | H | H | H | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-33-2** | $^i$Pr | H | H | $CH_3$ | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-33-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-33-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-33-5** | $^i$Pr | H | H | $CH_2Ph$ | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-33-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-33-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-33-8** | $^i$Pr | * | H | * | $^n$Bu | $OCH_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVIII-34.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-34-1** | $^t$Bu | H | H | H | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-34-2** | $^t$Bu | H | H | $CH_3$ | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-34-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-34-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-34-5** | $^t$Bu | H | H | $CH_2Ph$ | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-34-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-34-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-34-8** | $^t$Bu | * | H | * | $^n$Bu | $OCH_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00400

Table XVIII-35.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-35-1** | Ph | H | H | H | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-35-2** | Ph | H | H | $CH_3$ | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-35-3** | Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-35-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-35-5** | Ph | H | H | $CH_2Ph$ | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-35-6** | Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-35-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-35-8** | Ph | * | H | * | $^n$Bu | $OCH_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVIII-36.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-36-1** | p-Me-Ph | H | H | H | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-36-2** | p-Me-Ph | H | H | $CH_3$ | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-36-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-36-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-36-5** | p-Me-Ph | H | H | $CH_2Ph$ | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-36-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-36-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-36-8** | p-Me-Ph | * | H | * | $^n$Bu | $OCH_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVIII-37.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-37-1** | p-F-Ph | H | H | H | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-37-2** | p-F-Ph | H | H | $CH_3$ | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-37-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-37-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-37-5** | p-F-Ph | H | H | $CH_2Ph$ | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-37-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-37-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-37-8** | p-F-Ph | * | H | * | $^n$Bu | $OCH_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00401

Table XVIII-38.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-38-1** | p-Cl-Ph | H | H | H | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-38-2** | p-Cl-Ph | H | H | $CH_3$ | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-38-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-38-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-38-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-38-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-38-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-38-8** | p-Cl-Ph | * | H | * | $^n$Bu | $OCH_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVIII-39.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-39-1** | p-Br-Ph | H | H | H | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-39-2** | p-Br-Ph | H | H | $CH_3$ | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-39-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-39-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-39-5** | p-Br-Ph | H | H | $CH_2Ph$ | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-39-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-39-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-39-8** | p-Br-Ph | * | H | * | $^n$Bu | $OCH_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVIII-40.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-40-1** | p-I-Ph | H | H | H | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-40-2** | p-I-Ph | H | H | $CH_3$ | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-40-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-40-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-40-5** | p-I-Ph | H | H | $CH_2Ph$ | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-40-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-40-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $OCH_3$ | F | H | OH | H | H |
| **XVIII-40-8** | p-I-Ph | * | H | * | $^n$Bu | $OCH_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00402

Table XVIII-41.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-41-1** | $CH_3$ | H | H | H | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-41-2** | $CH_3$ | H | H | $CH_3$ | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-41-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-41-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-41-5** | $CH_3$ | H | H | $CH_2Ph$ | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-41-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-41-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-41-8** | $CH_3$ | * | H | * | Bz | $OCH_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVIII-42.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-42-1** | Et | H | H | H | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-42-2** | Et | H | H | $CH_3$ | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-42-3** | Et | H | H | $CH(CH_3)_2$ | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-42-4** | Et | H | H | $CH_2CH(CH_3)_2$ | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-42-5** | Et | H | H | $CH_2Ph$ | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-42-6** | Et | H | H | $CH_2$-indol-3-yl | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-42-7** | Et | H | H | $CH_2CH_2SCH_3$ | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-42-8** | Et | * | H | * | Bz | $OCH_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVIII-43.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-43-1** | $^i$Pr | H | H | H | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-43-2** | $^i$Pr | H | H | $CH_3$ | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-43-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-43-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-43-5** | $^i$Pr | H | H | $CH_2Ph$ | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-43-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-43-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-43-8** | $^i$Pr | * | H | * | Bz | $OCH_3$ | F | H | OH | H | H |



Gilead Exhibit 2024
PGR2023-00046 - Page 00403

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVIII-44.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-44-1** | $^t$Bu | H | H | H | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-44-2** | $^t$Bu | H | H | $CH_3$ | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-44-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-44-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-44-5** | $^t$Bu | H | H | $CH_2Ph$ | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-44-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-44-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-44-8** | $^t$Bu | * | H | * | Bz | $OCH_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVIII-45.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-45-1** | Ph | H | H | H | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-45-2** | Ph | H | H | $CH_3$ | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-45-3** | Ph | H | H | $CH(CH_3)_2$ | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-45-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-45-5** | Ph | H | H | $CH_2Ph$ | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-45-6** | Ph | H | H | $CH_2$-indol-3-yl | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-45-7** | Ph | H | H | $CH_2CH_2SCH_3$ | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-45-8** | Ph | * | H | * | Bz | $OCH_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVIII-46.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-46-1** | p-Me-Ph | H | H | H | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-46-2** | p-Me-Ph | H | H | $CH_3$ | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-46-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-46-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-46-5** | p-Me-Ph | H | H | $CH_2Ph$ | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-46-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-46-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | $OCH_3$ | F | H | OH | H | H |



Gilead Exhibit 2024
PGR2023-00046 - Page 00404

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-46-8** | p-Me-Ph | * | H | * | Bz | $OCH_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVIII-47.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-47-1** | p-F-Ph | H | H | H | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-47-2** | p-F-Ph | H | H | $CH_3$ | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-47-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-47-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-47-5** | p-F-Ph | H | H | $CH_2Ph$ | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-47-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-47-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-47-8** | p-F-Ph | * | H | * | Bz | $OCH_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVIII-48.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-48-1** | p-Cl-Ph | H | H | H | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-48-2** | p-Cl-Ph | H | H | $CH_3$ | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-48-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-48-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-48-5** | p-Cl-Ph | H | H | $CH_2Ph$ | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-48-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-48-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-48-8** | p-Cl-Ph | * | H | * | Bz | $OCH_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVIII-49.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-49-1** | p-Br-Ph | H | H | H | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-49-2** | p-Br-Ph | H | H | $CH_3$ | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-49-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-49-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-49-5** | p-Br-Ph | H | H | $CH_2Ph$ | Bz | $OCH_3$ | F | H | OH | H | H |



Gilead Exhibit 2024
PGR2023-00046 - Page 00405

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-49-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-49-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-49-8** | p-Br-Ph | * | H | * | Bz | $OCH_3$ | F | H | OH | H | H |

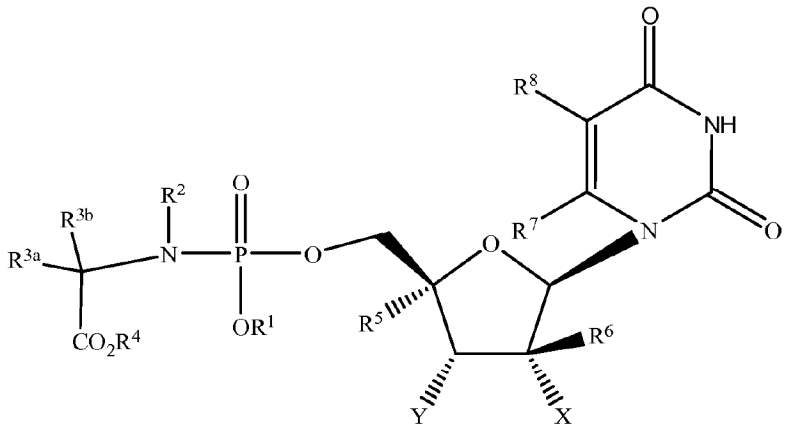
*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XVIII-50.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XVIII-50-1** | p-I-Ph | H | H | H | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-50-2** | p-I-Ph | H | H | $CH_3$ | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-50-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-50-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-50-5** | p-I-Ph | H | H | $CH_2Ph$ | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-50-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-50-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | $OCH_3$ | F | H | OH | H | H |
| **XVIII-50-8** | p-I-Ph | * | H | * | Bz | $OCH_3$ | F | H | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

5




**XIX**

Table XIX-1.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-1-1** | $CH_3$ | H | H | H | $CH_3$ | $OCH_3$ | F | F | OH | H | H |



Gilead Exhibit 2024
PGR2023-00046 - Page 00406

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-1-2** | $CH_3$ | H | H | $CH_3$ | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-1-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-1-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-1-5** | $CH_3$ | H | H | $CH_2Ph$ | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-1-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-1-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-1-8** | $CH_3$ | * | H | * | $CH_3$ | $OCH_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIX-2.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-2-1** | Et | H | H | H | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-2-2** | Et | H | H | $CH_3$ | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-2-3** | Et | H | H | $CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-2-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-2-5** | Et | H | H | $CH_2Ph$ | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-2-6** | Et | H | H | $CH_2$-indol-3-yl | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-2-7** | Et | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-2-8** | Et | * | H | * | $CH_3$ | $OCH_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIX-3.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-3-1** | $^i$Pr | H | H | H | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-3-2** | $^i$Pr | H | H | $CH_3$ | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-3-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-3-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-3-5** | $^i$Pr | H | H | $CH_2Ph$ | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-3-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-3-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-3-8** | $^i$Pr | * | H | * | $CH_3$ | $OCH_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIX-4.



Gilead Exhibit 2024
PGR2023-00046 - Page 00407

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-4-1** | $^t$Bu | H | H | H | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-4-2** | $^t$Bu | H | H | $CH_3$ | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-4-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-4-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-4-5** | $^t$Bu | H | H | $CH_2Ph$ | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-4-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-4-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-4-8** | $^t$Bu | * | H | * | $CH_3$ | $OCH_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIX-5.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-5-1** | Ph | H | H | H | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-5-2** | Ph | H | H | $CH_3$ | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-5-3** | Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-5-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-5-5** | Ph | H | H | $CH_2Ph$ | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-5-6** | Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-5-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-5-8** | Ph | * | H | * | $CH_3$ | $OCH_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIX-6.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-6-1** | p-Me-Ph | H | H | H | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-6-2** | p-Me-Ph | H | H | $CH_3$ | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-6-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-6-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-6-5** | p-Me-Ph | H | H | $CH_2Ph$ | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-6-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-6-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-6-8** | p-Me-Ph | * | H | * | $CH_3$ | $OCH_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00408

Table XIX-7.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-7-1** | p-F-Ph | H | H | H | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-7-2** | p-F-Ph | H | H | $CH_3$ | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-7-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-7-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-7-6** | p-F-Ph | H | H | $CH_2Ph$ | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-7-7** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-7-8** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-7-20** | p-F-Ph | * | H | * | $CH_3$ | $OCH_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIX-8.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-8-1** | p-Cl-Ph | H | H | H | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-8-2** | p-Cl-Ph | H | H | $CH_3$ | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-8-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-8-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-8-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-8-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-8-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-8-8** | p-Cl-Ph | * | H | * | $CH_3$ | $OCH_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIX-9.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-9-1** | p-Br-Ph | H | H | H | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-9-2** | p-Br-Ph | H | H | $CH_3$ | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-9-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-9-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-9-6** | p-Br-Ph | H | H | $CH_2Ph$ | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-9-7** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-9-8** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-9-20** | p-Br-Ph | * | H | * | $CH_3$ | $OCH_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00409

Table XIX-10.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-10-1** | p-I-Ph | H | H | H | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-10-2** | p-I-Ph | H | H | $CH_3$ | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-10-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-10-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-10-5** | p-I-Ph | H | H | $CH_2Ph$ | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-10-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-10-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | $OCH_3$ | F | F | OH | H | H |
| **XIX-10-8** | p-I-Ph | * | H | * | $CH_3$ | $OCH_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIX-11.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-11-1** | $CH_3$ | H | H | H | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-11-2** | $CH_3$ | H | H | $CH_3$ | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-11-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-11-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-11-5** | $CH_3$ | H | H | $CH_2Ph$ | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-11-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-11-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-11-8** | $CH_3$ | * | H | * | Et | $OCH_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIX-12.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-12-1** | Et | H | H | H | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-12-2** | Et | H | H | $CH_3$ | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-12-3** | Et | H | H | $CH(CH_3)_2$ | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-12-4** | Et | H | H | $CH_2CH(CH_3)_2$ | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-12-5** | Et | H | H | $CH_2Ph$ | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-12-6** | Et | H | H | $CH_2$-indol-3-yl | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-12-7** | Et | H | H | $CH_2CH_2SCH_3$ | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-12-8** | Et | * | H | * | Et | $OCH_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIX-13.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-13-1** | $^i$Pr | H | H | H | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-13-2** | $^i$Pr | H | H | $CH_3$ | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-13-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-13-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-13-5** | $^i$Pr | H | H | $CH_2Ph$ | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-13-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-13-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-13-8** | $^i$Pr | * | H | * | Et | $OCH_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIX-14.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-14-1** | $^t$Bu | H | H | H | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-14-2** | $^t$Bu | H | H | $CH_3$ | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-14-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-14-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-14-5** | $^t$Bu | H | H | $CH_2Ph$ | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-14-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-14-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-14-8** | $^t$Bu | * | H | * | Et | $OCH_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIX-15.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-15-1** | Ph | H | H | H | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-15-2** | Ph | H | H | $CH_3$ | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-15-3** | Ph | H | H | $CH(CH_3)_2$ | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-15-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-15-5** | Ph | H | H | $CH_2Ph$ | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-15-6** | Ph | H | H | $CH_2$-indol-3-yl | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-15-7** | Ph | H | H | $CH_2CH_2SCH_3$ | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-15-8** | Ph | * | H | * | Et | $OCH_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00411

Table XIX-16.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-16-1** | p-Me-Ph | H | H | H | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-16-2** | p-Me-Ph | H | H | $CH_3$ | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-16-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-16-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-16-5** | p-Me-Ph | H | H | $CH_2Ph$ | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-16-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-16-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-16-8** | p-Me-Ph | * | H | * | Et | $OCH_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIX-17.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-17-1** | p-F-Ph | H | H | H | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-17-2** | p-F-Ph | H | H | $CH_3$ | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-17-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-17-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-17-5** | p-F-Ph | H | H | $CH_2Ph$ | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-17-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-17-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-17-8** | p-F-Ph | * | H | * | Et | $OCH_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIX-18.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-18-1** | p-Cl-Ph | H | H | H | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-18-2** | p-Cl-Ph | H | H | $CH_3$ | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-18-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-18-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-18-5** | p-Cl-Ph | H | H | $CH_2Ph$ | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-18-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-18-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-18-8** | p-Cl-Ph | * | H | * | Et | $OCH_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00412

Table XIX-19.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-19-1** | p-Br-Ph | H | H | H | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-19-2** | p-Br-Ph | H | H | $CH_3$ | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-19-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-19-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-19-5** | p-Br-Ph | H | H | $CH_2Ph$ | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-19-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-19-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | Et | $OCH_3$ | F | F | OH | H | H |
| **XIX-19-8** | p-Br-Ph | * | H | * | Et | $OCH_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIX-20.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ |
|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-20-1** | p-I-Ph | H | H | H | Et | $OCH_3$ | F | F | OH | H |
| **XIX-20-2** | p-I-Ph | H | H | $CH_3$ | Et | $OCH_3$ | F | F | OH | H |
| **XIX-20-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | Et | $OCH_3$ | F | F | OH | H |
| **XIX-20-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | $OCH_3$ | F | F | OH | H |
| **XIX-20-5** | p-I-Ph | H | H | $CH_2Ph$ | Et | $OCH_3$ | F | F | OH | H |
| **XIX-20-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | Et | $OCH_3$ | F | F | OH | H |
| **XIX-20-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | Et | $OCH_3$ | F | F | OH | H |
| **XIX-20-8** | p-I-Ph | * | H | * | Et | $OCH_3$ | F | F | OH | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIX-21.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-21-1** | $CH_3$ | H | H | H | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-21-2** | $CH_3$ | H | H | $CH_3$ | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-21-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-21-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-21-5** | $CH_3$ | H | H | $CH_2Ph$ | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-21-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-21-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-21-8** | $CH_3$ | * | H | * | $^i$Pr | $OCH_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00413

Table XIX-22.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-22-1** | Et | H | H | H | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-22-2** | Et | H | H | $CH_3$ | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-22-3** | Et | H | H | $CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-22-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-22-5** | Et | H | H | $CH_2Ph$ | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-22-6** | Et | H | H | $CH_2$-indol-3-yl | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-22-7** | Et | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-22-8** | Et | * | H | * | $^i$Pr | $OCH_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIX-23.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-23-1** | $^i$Pr | H | H | H | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-23-2** | $^i$Pr | H | H | $CH_3$ | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-23-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-23-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-23-5** | $^i$Pr | H | H | $CH_2Ph$ | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-23-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-23-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-23-8** | $^i$Pr | * | H | * | $^i$Pr | $OCH_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIX-24.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-24-1** | $^t$Bu | H | H | H | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-24-2** | $^t$Bu | H | H | $CH_3$ | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-24-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-24-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-24-5** | $^t$Bu | H | H | $CH_2Ph$ | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-24-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-24-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-24-8** | $^t$Bu | * | H | * | $^i$Pr | $OCH_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00414

Table XIX-25.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-25-1** | Ph | H | H | H | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-25-2** | Ph | H | H | $CH_3$ | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-25-3** | Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-25-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-25-5** | Ph | H | H | $CH_2Ph$ | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-25-6** | Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-25-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-25-8** | Ph | * | H | * | $^i$Pr | $OCH_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIX-26.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-26-1** | p-Me-Ph | H | H | H | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-26-2** | p-Me-Ph | H | H | $CH_3$ | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-26-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-26-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-26-5** | p-Me-Ph | H | H | $CH_2Ph$ | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-26-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-26-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-26-8** | p-Me-Ph | * | H | * | $^i$Pr | $OCH_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIX-27.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-27-1** | p-F-Ph | H | H | H | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-27-2** | p-F-Ph | H | H | $CH_3$ | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-27-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-27-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-27-5** | p-F-Ph | H | H | $CH_2Ph$ | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-27-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-27-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-27-8** | p-F-Ph | * | H | * | $^i$Pr | $OCH_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00415

Table XIX-28.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-28-1** | p-Cl-Ph | H | H | H | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-28-2** | p-Cl-Ph | H | H | $CH_3$ | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-28-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-28-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-28-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-28-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-28-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-28-8** | p-Cl-Ph | * | H | * | $^i$Pr | $OCH_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIX-29.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-29-1** | p-Br-Ph | H | H | H | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-29-2** | p-Br-Ph | H | H | $CH_3$ | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-29-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-29-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-29-5** | p-Br-Ph | H | H | $CH_2Ph$ | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-29-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-29-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-29-8** | p-Br-Ph | * | H | * | $^i$Pr | $OCH_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIX-30.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-30-1** | p-I-Ph | H | H | H | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-30-2** | p-I-Ph | H | H | $CH_3$ | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-30-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-30-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-30-5** | p-I-Ph | H | H | $CH_2Ph$ | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-30-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-30-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $OCH_3$ | F | F | OH | H | H |
| **XIX-30-8** | p-I-Ph | * | H | * | $^i$Pr | $OCH_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00416

Table XIX-31.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-31-1** | $CH_3$ | H | H | H | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-31-2** | $CH_3$ | H | H | $CH_3$ | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-31-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-31-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-31-5** | $CH_3$ | H | H | $CH_2Ph$ | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-31-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-31-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-31-8** | $CH_3$ | * | H | * | $^n$Bu | $OCH_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIX-32.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-32-1** | Et | H | H | H | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-32-2** | Et | H | H | $CH_3$ | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-32-3** | Et | H | H | $CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-32-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-32-5** | Et | H | H | $CH_2Ph$ | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-32-6** | Et | H | H | $CH_2$-indol-3-yl | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-32-7** | Et | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-32-8** | Et | * | H | * | $^n$Bu | $OCH_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIX-33.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-33-1** | $^i$Pr | H | H | H | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-33-2** | $^i$Pr | H | H | $CH_3$ | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-33-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-33-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-33-5** | $^i$Pr | H | H | $CH_2Ph$ | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-33-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-33-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-33-8** | $^i$Pr | * | H | * | $^n$Bu | $OCH_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00417

Table XIX-34.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-34-1** | $^t$Bu | H | H | H | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-34-2** | $^t$Bu | H | H | $CH_3$ | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-34-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-34-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-34-5** | $^t$Bu | H | H | $CH_2Ph$ | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-34-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-34-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-34-8** | $^t$Bu | * | H | * | $^n$Bu | $OCH_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIX-35.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-35-1** | Ph | H | H | H | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-35-2** | Ph | H | H | $CH_3$ | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-35-3** | Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-35-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-35-5** | Ph | H | H | $CH_2Ph$ | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-35-6** | Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-35-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-35-8** | Ph | * | H | * | $^n$Bu | $OCH_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIX-36.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-36-1** | p-Me-Ph | H | H | H | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-36-2** | p-Me-Ph | H | H | $CH_3$ | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-36-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-36-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-36-5** | p-Me-Ph | H | H | $CH_2Ph$ | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-36-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-36-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-36-8** | p-Me-Ph | * | H | * | $^n$Bu | $OCH_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00418

Table XIX-37.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-37-1** | p-F-Ph | H | H | H | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-37-2** | p-F-Ph | H | H | $CH_3$ | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-37-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-37-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-37-5** | p-F-Ph | H | H | $CH_2Ph$ | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-37-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-37-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-37-8** | p-F-Ph | * | H | * | $^n$Bu | $OCH_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIX-38.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-38-1** | p-Cl-Ph | H | H | H | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-38-2** | p-Cl-Ph | H | H | $CH_3$ | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-38-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-38-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-38-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-38-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-38-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-38-8** | p-Cl-Ph | * | H | * | $^n$Bu | $OCH_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIX-39.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-39-1** | p-Br-Ph | H | H | H | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-39-2** | p-Br-Ph | H | H | $CH_3$ | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-39-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-39-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-39-5** | p-Br-Ph | H | H | $CH_2Ph$ | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-39-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-39-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-39-8** | p-Br-Ph | * | H | * | $^n$Bu | $OCH_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00419

Table XIX-40.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-40-1** | p-I-Ph | H | H | H | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-40-2** | p-I-Ph | H | H | $CH_3$ | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-40-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-40-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-40-5** | p-I-Ph | H | H | $CH_2Ph$ | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-40-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-40-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $OCH_3$ | F | F | OH | H | H |
| **XIX-40-8** | p-I-Ph | * | H | * | $^n$Bu | $OCH_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIX-41.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-41-1** | $CH_3$ | H | H | H | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-41-2** | $CH_3$ | H | H | $CH_3$ | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-41-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-41-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-41-5** | $CH_3$ | H | H | $CH_2Ph$ | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-41-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-41-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-41-8** | $CH_3$ | * | H | * | Bz | $OCH_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIX-42.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-42-1** | Et | H | H | H | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-42-2** | Et | H | H | $CH_3$ | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-42-3** | Et | H | H | $CH(CH_3)_2$ | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-42-4** | Et | H | H | $CH_2CH(CH_3)_2$ | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-42-5** | Et | H | H | $CH_2Ph$ | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-42-6** | Et | H | H | $CH_2$-indol-3-yl | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-42-7** | Et | H | H | $CH_2CH_2SCH_3$ | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-42-8** | Et | * | H | * | Bz | $OCH_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIX-43.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-43-1** | $^i$Pr | H | H | H | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-43-2** | $^i$Pr | H | H | $CH_3$ | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-43-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-43-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-43-5** | $^i$Pr | H | H | $CH_2Ph$ | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-43-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-43-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-43-8** | $^i$Pr | * | H | * | Bz | $OCH_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIX-44.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-44-1** | $^t$Bu | H | H | H | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-44-2** | $^t$Bu | H | H | $CH_3$ | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-44-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-44-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-44-5** | $^t$Bu | H | H | $CH_2Ph$ | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-44-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-44-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-44-8** | $^t$Bu | * | H | * | Bz | $OCH_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIX-45.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-45-1** | Ph | H | H | H | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-45-2** | Ph | H | H | $CH_3$ | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-45-3** | Ph | H | H | $CH(CH_3)_2$ | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-45-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-45-5** | Ph | H | H | $CH_2Ph$ | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-45-6** | Ph | H | H | $CH_2$-indol-3-yl | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-45-7** | Ph | H | H | $CH_2CH_2SCH_3$ | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-45-8** | Ph | * | H | * | Bz | $OCH_3$ | F | F | OH | H | H |



Gilead Exhibit 2024
PGR2023-00046 - Page 00421

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIX-46.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-46-1** | p-Me-Ph | H | H | H | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-46-2** | p-Me-Ph | H | H | $CH_3$ | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-46-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-46-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-46-5** | p-Me-Ph | H | H | $CH_2Ph$ | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-46-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-46-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-46-8** | p-Me-Ph | * | H | * | Bz | $OCH_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIX-47.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-47-1** | p-F-Ph | H | H | H | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-47-2** | p-F-Ph | H | H | $CH_3$ | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-47-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-47-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-47-5** | p-F-Ph | H | H | $CH_2Ph$ | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-47-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-47-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-47-8** | p-F-Ph | * | H | * | Bz | $OCH_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIX-48.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-48-1** | p-Cl-Ph | H | H | H | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-48-2** | p-Cl-Ph | H | H | $CH_3$ | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-48-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-48-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-48-5** | p-Cl-Ph | H | H | $CH_2Ph$ | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-48-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-48-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | $OCH_3$ | F | F | OH | H | H |

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-48-8** | p-Cl-Ph | * | H | * | Bz | $OCH_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIX-49.

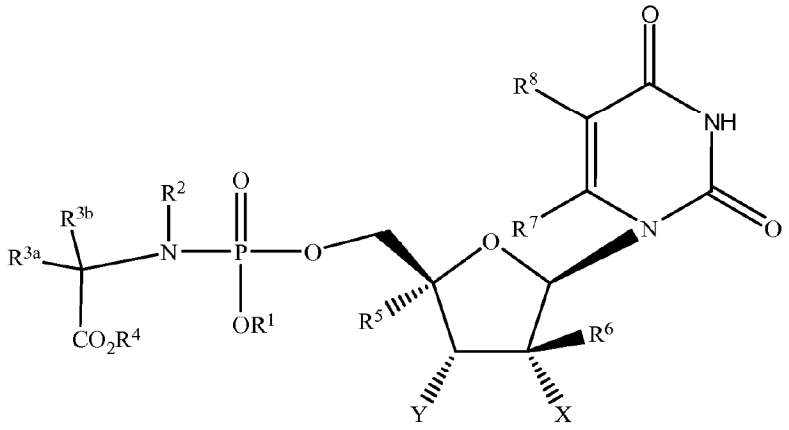
| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-49-1** | p-Br-Ph | H | H | H | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-49-2** | p-Br-Ph | H | H | $CH_3$ | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-49-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-49-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-49-5** | p-Br-Ph | H | H | $CH_2Ph$ | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-49-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-49-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-49-8** | p-Br-Ph | * | H | * | Bz | $OCH_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XIX-50.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XIX-50-1** | p-I-Ph | H | H | H | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-50-2** | p-I-Ph | H | H | $CH_3$ | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-50-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-50-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-50-5** | p-I-Ph | H | H | $CH_2Ph$ | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-50-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-50-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | $OCH_3$ | F | F | OH | H | H |
| **XIX-50-8** | p-I-Ph | * | H | * | Bz | $OCH_3$ | F | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



**XX**

Table XX-1.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-1-1** | $CH_3$ | H | H | H | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-1-2** | $CH_3$ | H | H | $CH_3$ | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-1-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-1-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-1-5** | $CH_3$ | H | H | $CH_2Ph$ | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-1-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-1-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-1-8** | $CH_3$ | * | H | * | $CH_3$ | $OCH_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XX-2.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-2-1** | Et | H | H | H | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-2-2** | Et | H | H | $CH_3$ | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-2-3** | Et | H | H | $CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-2-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-2-5** | Et | H | H | $CH_2Ph$ | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-2-6** | Et | H | H | $CH_2$-indol-3-yl | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-2-7** | Et | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-2-8** | Et | * | H | * | $CH_3$ | $OCH_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00424

Table XX-3.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-3-1** | $^i$Pr | H | H | H | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-3-2** | $^i$Pr | H | H | $CH_3$ | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-3-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-3-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-3-5** | $^i$Pr | H | H | $CH_2Ph$ | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-3-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-3-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-3-8** | $^i$Pr | * | H | * | $CH_3$ | $OCH_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XX-4.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-4-1** | $^t$Bu | H | H | H | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-4-2** | $^t$Bu | H | H | $CH_3$ | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-4-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-4-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-4-5** | $^t$Bu | H | H | $CH_2Ph$ | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-4-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-4-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-4-8** | $^t$Bu | * | H | * | $CH_3$ | $OCH_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XX-5.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-5-1** | Ph | H | H | H | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-5-2** | Ph | H | H | $CH_3$ | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-5-3** | Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-5-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-5-5** | Ph | H | H | $CH_2Ph$ | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-5-6** | Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-5-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-5-8** | Ph | * | H | * | $CH_3$ | $OCH_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00425

Table XX-6.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-6-1** | p-Me-Ph | H | H | H | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-6-2** | p-Me-Ph | H | H | $CH_3$ | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-6-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-6-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-6-5** | p-Me-Ph | H | H | $CH_2Ph$ | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-6-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-6-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-6-8** | p-Me-Ph | * | H | * | $CH_3$ | $OCH_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XX-7.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-7-1** | p-F-Ph | H | H | H | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-7-2** | p-F-Ph | H | H | $CH_3$ | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-7-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-7-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-7-6** | p-F-Ph | H | H | $CH_2Ph$ | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-7-7** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-7-8** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-7-20** | p-F-Ph | * | H | * | $CH_3$ | $OCH_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XX-8.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-8-1** | p-Cl-Ph | H | H | H | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-8-2** | p-Cl-Ph | H | H | $CH_3$ | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-8-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-8-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-8-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-8-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-8-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-8-8** | p-Cl-Ph | * | H | * | $CH_3$ | $OCH_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00426

Table XX-9.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-9-1** | p-Br-Ph | H | H | H | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-9-2** | p-Br-Ph | H | H | $CH_3$ | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-9-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-9-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-9-6** | p-Br-Ph | H | H | $CH_2Ph$ | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-9-7** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-9-8** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-9-20** | p-Br-Ph | * | H | * | $CH_3$ | $OCH_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XX-10.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-10-1** | p-I-Ph | H | H | H | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-10-2** | p-I-Ph | H | H | $CH_3$ | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-10-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-10-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-10-5** | p-I-Ph | H | H | $CH_2Ph$ | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-10-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-10-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | $OCH_3$ | H | F | OH | H | H |
| **XX-10-8** | p-I-Ph | * | H | * | $CH_3$ | $OCH_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XX-11.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-11-1** | $CH_3$ | H | H | H | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-11-2** | $CH_3$ | H | H | $CH_3$ | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-11-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-11-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-11-5** | $CH_3$ | H | H | $CH_2Ph$ | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-11-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-11-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-11-8** | $CH_3$ | * | H | * | Et | $OCH_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00427

Table XX-12.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-12-1** | Et | H | H | H | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-12-2** | Et | H | H | $CH_3$ | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-12-3** | Et | H | H | $CH(CH_3)_2$ | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-12-4** | Et | H | H | $CH_2CH(CH_3)_2$ | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-12-5** | Et | H | H | $CH_2Ph$ | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-12-6** | Et | H | H | $CH_2$-indol-3-yl | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-12-7** | Et | H | H | $CH_2CH_2SCH_3$ | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-12-8** | Et | * | H | * | Et | $OCH_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XX-13.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-13-1** | $^i$Pr | H | H | H | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-13-2** | $^i$Pr | H | H | $CH_3$ | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-13-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-13-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-13-5** | $^i$Pr | H | H | $CH_2Ph$ | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-13-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-13-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-13-8** | $^i$Pr | * | H | * | Et | $OCH_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XX-14.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-14-1** | $^t$Bu | H | H | H | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-14-2** | $^t$Bu | H | H | $CH_3$ | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-14-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-14-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-14-5** | $^t$Bu | H | H | $CH_2Ph$ | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-14-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-14-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-14-8** | $^t$Bu | * | H | * | Et | $OCH_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00428

Table XX-15.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-15-1** | Ph | H | H | H | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-15-2** | Ph | H | H | $CH_3$ | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-15-3** | Ph | H | H | $CH(CH_3)_2$ | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-15-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-15-5** | Ph | H | H | $CH_2Ph$ | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-15-6** | Ph | H | H | $CH_2$-indol-3-yl | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-15-7** | Ph | H | H | $CH_2CH_2SCH_3$ | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-15-8** | Ph | * | H | * | Et | $OCH_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XX-16.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-16-1** | p-Me-Ph | H | H | H | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-16-2** | p-Me-Ph | H | H | $CH_3$ | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-16-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-16-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-16-5** | p-Me-Ph | H | H | $CH_2Ph$ | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-16-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-16-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-16-8** | p-Me-Ph | * | H | * | Et | $OCH_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XX-17.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-17-1** | p-F-Ph | H | H | H | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-17-2** | p-F-Ph | H | H | $CH_3$ | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-17-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-17-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-17-5** | p-F-Ph | H | H | $CH_2Ph$ | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-17-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-17-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-17-8** | p-F-Ph | * | H | * | Et | $OCH_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00429

Table XX-18.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-18-1** | p-Cl-Ph | H | H | H | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-18-2** | p-Cl-Ph | H | H | $CH_3$ | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-18-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-18-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-18-5** | p-Cl-Ph | H | H | $CH_2Ph$ | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-18-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-18-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-18-8** | p-Cl-Ph | * | H | * | Et | $OCH_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XX-19.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-19-1** | p-Br-Ph | H | H | H | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-19-2** | p-Br-Ph | H | H | $CH_3$ | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-19-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-19-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-19-5** | p-Br-Ph | H | H | $CH_2Ph$ | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-19-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-19-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-19-8** | p-Br-Ph | * | H | * | Et | $OCH_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XX-20.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-20-1** | p-I-Ph | H | H | H | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-20-2** | p-I-Ph | H | H | $CH_3$ | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-20-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-20-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-20-5** | p-I-Ph | H | H | $CH_2Ph$ | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-20-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-20-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | Et | $OCH_3$ | H | F | OH | H | H |
| **XX-20-8** | p-I-Ph | * | H | * | Et | $OCH_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00430

Table XX-21.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-21-1** | $CH_3$ | H | H | H | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-21-2** | $CH_3$ | H | H | $CH_3$ | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-21-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-21-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-21-5** | $CH_3$ | H | H | $CH_2Ph$ | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-21-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-21-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-21-8** | $CH_3$ | * | H | * | $^i$Pr | $OCH_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XX-22.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-22-1** | Et | H | H | H | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-22-2** | Et | H | H | $CH_3$ | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-22-3** | Et | H | H | $CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-22-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-22-5** | Et | H | H | $CH_2Ph$ | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-22-6** | Et | H | H | $CH_2$-indol-3-yl | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-22-7** | Et | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-22-8** | Et | * | H | * | $^i$Pr | $OCH_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XX-23.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-23-1** | $^i$Pr | H | H | H | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-23-2** | $^i$Pr | H | H | $CH_3$ | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-23-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-23-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-23-5** | $^i$Pr | H | H | $CH_2Ph$ | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-23-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-23-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-23-8** | $^i$Pr | * | H | * | $^i$Pr | $OCH_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00431

Table XX-24.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-24-1** | $^t$Bu | H | H | H | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-24-2** | $^t$Bu | H | H | $CH_3$ | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-24-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-24-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-24-5** | $^t$Bu | H | H | $CH_2Ph$ | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-24-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-24-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-24-8** | $^t$Bu | * | H | * | $^i$Pr | $OCH_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XX-25.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-25-1** | Ph | H | H | H | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-25-2** | Ph | H | H | $CH_3$ | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-25-3** | Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-25-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-25-5** | Ph | H | H | $CH_2Ph$ | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-25-6** | Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-25-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-25-8** | Ph | * | H | * | $^i$Pr | $OCH_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XX-26.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-26-1** | p-Me-Ph | H | H | H | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-26-2** | p-Me-Ph | H | H | $CH_3$ | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-26-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-26-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-26-5** | p-Me-Ph | H | H | $CH_2Ph$ | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-26-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-26-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-26-8** | p-Me-Ph | * | H | * | $^i$Pr | $OCH_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00432

Table XX-27.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-27-1** | p-F-Ph | H | H | H | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-27-2** | p-F-Ph | H | H | $CH_3$ | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-27-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-27-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-27-5** | p-F-Ph | H | H | $CH_2Ph$ | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-27-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-27-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-27-8** | p-F-Ph | * | H | * | $^i$Pr | $OCH_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XX-28.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-28-1** | p-Cl-Ph | H | H | H | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-28-2** | p-Cl-Ph | H | H | $CH_3$ | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-28-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-28-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-28-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-28-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-28-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-28-8** | p-Cl-Ph | * | H | * | $^i$Pr | $OCH_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XX-29.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-29-1** | p-Br-Ph | H | H | H | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-29-2** | p-Br-Ph | H | H | $CH_3$ | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-29-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-29-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-29-5** | p-Br-Ph | H | H | $CH_2Ph$ | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-29-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-29-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-29-8** | p-Br-Ph | * | H | * | $^i$Pr | $OCH_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00433

Table XX-30.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-30-1** | p-I-Ph | H | H | H | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-30-2** | p-I-Ph | H | H | $CH_3$ | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-30-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-30-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-30-5** | p-I-Ph | H | H | $CH_2Ph$ | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-30-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-30-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | $OCH_3$ | H | F | OH | H | H |
| **XX-30-8** | p-I-Ph | * | H | * | $^i$Pr | $OCH_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XX-31.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-31-1** | $CH_3$ | H | H | H | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-31-2** | $CH_3$ | H | H | $CH_3$ | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-31-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-31-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-31-5** | $CH_3$ | H | H | $CH_2Ph$ | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-31-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-31-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-31-8** | $CH_3$ | * | H | * | $^n$Bu | $OCH_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XX-32.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-32-1** | Et | H | H | H | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-32-2** | Et | H | H | $CH_3$ | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-32-3** | Et | H | H | $CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-32-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-32-5** | Et | H | H | $CH_2Ph$ | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-32-6** | Et | H | H | $CH_2$-indol-3-yl | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-32-7** | Et | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-32-8** | Et | * | H | * | $^n$Bu | $OCH_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00434

Table XX-33.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-33-1** | $^i$Pr | H | H | H | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-33-2** | $^i$Pr | H | H | $CH_3$ | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-33-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-33-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-33-5** | $^i$Pr | H | H | $CH_2Ph$ | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-33-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-33-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-33-8** | $^i$Pr | * | H | * | $^n$Bu | $OCH_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XX-34.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-34-1** | $^t$Bu | H | H | H | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-34-2** | $^t$Bu | H | H | $CH_3$ | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-34-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-34-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-34-5** | $^t$Bu | H | H | $CH_2Ph$ | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-34-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-34-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-34-8** | $^t$Bu | * | H | * | $^n$Bu | $OCH_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XX-35.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-35-1** | Ph | H | H | H | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-35-2** | Ph | H | H | $CH_3$ | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-35-3** | Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-35-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-35-5** | Ph | H | H | $CH_2Ph$ | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-35-6** | Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-35-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-35-8** | Ph | * | H | * | $^n$Bu | $OCH_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00435

Table XX-36.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-36-1** | p-Me-Ph | H | H | H | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-36-2** | p-Me-Ph | H | H | $CH_3$ | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-36-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-36-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-36-5** | p-Me-Ph | H | H | $CH_2Ph$ | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-36-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-36-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-36-8** | p-Me-Ph | * | H | * | $^n$Bu | $OCH_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XX-37.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-37-1** | p-F-Ph | H | H | H | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-37-2** | p-F-Ph | H | H | $CH_3$ | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-37-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-37-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-37-5** | p-F-Ph | H | H | $CH_2Ph$ | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-37-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-37-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-37-8** | p-F-Ph | * | H | * | $^n$Bu | $OCH_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XX-38.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-38-1** | p-Cl-Ph | H | H | H | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-38-2** | p-Cl-Ph | H | H | $CH_3$ | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-38-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-38-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-38-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-38-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-38-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-38-8** | p-Cl-Ph | * | H | * | $^n$Bu | $OCH_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XX-39.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-39-1** | p-Br-Ph | H | H | H | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-39-2** | p-Br-Ph | H | H | $CH_3$ | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-39-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-39-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-39-5** | p-Br-Ph | H | H | $CH_2Ph$ | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-39-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-39-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-39-8** | p-Br-Ph | * | H | * | $^n$Bu | $OCH_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XX-40.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-40-1** | p-I-Ph | H | H | H | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-40-2** | p-I-Ph | H | H | $CH_3$ | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-40-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-40-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-40-5** | p-I-Ph | H | H | $CH_2Ph$ | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-40-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-40-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | $OCH_3$ | H | F | OH | H | H |
| **XX-40-8** | p-I-Ph | * | H | * | $^n$Bu | $OCH_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XX-41.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-41-1** | $CH_3$ | H | H | H | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-41-2** | $CH_3$ | H | H | $CH_3$ | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-41-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-41-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-41-5** | $CH_3$ | H | H | $CH_2Ph$ | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-41-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-41-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-41-8** | $CH_3$ | * | H | * | Bz | $OCH_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00437

Table XX-42.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-42-1** | Et | H | H | H | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-42-2** | Et | H | H | $CH_3$ | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-42-3** | Et | H | H | $CH(CH_3)_2$ | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-42-4** | Et | H | H | $CH_2CH(CH_3)_2$ | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-42-5** | Et | H | H | $CH_2Ph$ | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-42-6** | Et | H | H | $CH_2$-indol-3-yl | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-42-7** | Et | H | H | $CH_2CH_2SCH_3$ | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-42-8** | Et | * | H | * | Bz | $OCH_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XX-43.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-43-1** | $^i$Pr | H | H | H | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-43-2** | $^i$Pr | H | H | $CH_3$ | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-43-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-43-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-43-5** | $^i$Pr | H | H | $CH_2Ph$ | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-43-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-43-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-43-8** | $^i$Pr | * | H | * | Bz | $OCH_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XX-44.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-44-1** | $^t$Bu | H | H | H | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-44-2** | $^t$Bu | H | H | $CH_3$ | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-44-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-44-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-44-5** | $^t$Bu | H | H | $CH_2Ph$ | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-44-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-44-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-44-8** | $^t$Bu | * | H | * | Bz | $OCH_3$ | H | F | OH | H | H |



Gilead Exhibit 2024
PGR2023-00046 - Page 00438

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XX-45.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-45-1** | Ph | H | H | H | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-45-2** | Ph | H | H | $CH_3$ | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-45-3** | Ph | H | H | $CH(CH_3)_2$ | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-45-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-45-5** | Ph | H | H | $CH_2Ph$ | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-45-6** | Ph | H | H | $CH_2$-indol-3-yl | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-45-7** | Ph | H | H | $CH_2CH_2SCH_3$ | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-45-8** | Ph | * | H | * | Bz | $OCH_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XX-46.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-46-1** | p-Me-Ph | H | H | H | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-46-2** | p-Me-Ph | H | H | $CH_3$ | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-46-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-46-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-46-5** | p-Me-Ph | H | H | $CH_2Ph$ | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-46-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-46-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-46-8** | p-Me-Ph | * | H | * | Bz | $OCH_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XX-47.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-47-1** | p-F-Ph | H | H | H | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-47-2** | p-F-Ph | H | H | $CH_3$ | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-47-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-47-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-47-5** | p-F-Ph | H | H | $CH_2Ph$ | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-47-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-47-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | $OCH_3$ | H | F | OH | H | H |

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-47-8** | p-F-Ph | * | H | * | Bz | $OCH_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XX-48.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-48-1** | p-Cl-Ph | H | H | H | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-48-2** | p-Cl-Ph | H | H | $CH_3$ | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-48-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-48-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-48-5** | p-Cl-Ph | H | H | $CH_2Ph$ | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-48-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-48-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-48-8** | p-Cl-Ph | * | H | * | Bz | $OCH_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XX-49.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-49-1** | p-Br-Ph | H | H | H | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-49-2** | p-Br-Ph | H | H | $CH_3$ | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-49-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-49-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-49-5** | p-Br-Ph | H | H | $CH_2Ph$ | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-49-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-49-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-49-8** | p-Br-Ph | * | H | * | Bz | $OCH_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XX-50.

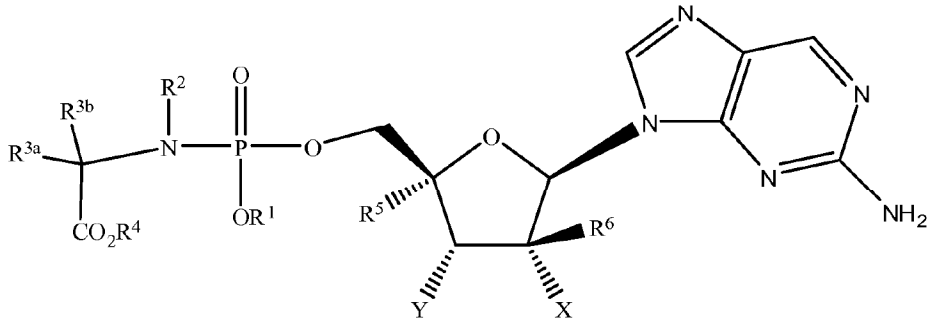
| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-50-1** | p-I-Ph | H | H | H | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-50-2** | p-I-Ph | H | H | $CH_3$ | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-50-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-50-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-50-5** | p-I-Ph | H | H | $CH_2Ph$ | Bz | $OCH_3$ | H | F | OH | H | H |



Gilead Exhibit 2024
PGR2023-00046 - Page 00440

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y | $R^7$ | $R^8$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **XX-50-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-50-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | $OCH_3$ | H | F | OH | H | H |
| **XX-50-8** | p-I-Ph | * | H | * | Bz | $OCH_3$ | H | F | OH | H | H |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



**XXI**

Table XXI-1.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-1-1** | $CH_3$ | H | H | H | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-1-2** | $CH_3$ | H | H | $CH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-1-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-1-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-1-5** | $CH_3$ | H | H | $CH_2Ph$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-1-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-1-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-1-8** | $CH_3$ | * | H | * | $CH_3$ | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXI-2.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-2-1** | Et | H | H | H | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-2-2** | Et | H | H | $CH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-2-3** | Et | H | H | $CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |



Gilead Exhibit 2024
PGR2023-00046 - Page 00441

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-2-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-2-5** | Et | H | H | $CH_2Ph$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-2-6** | Et | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-2-7** | Et | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-2-8** | Et | * | H | * | $CH_3$ | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXI-3.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-3-1** | $^i$Pr | H | H | H | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-3-2** | $^i$Pr | H | H | $CH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-3-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-3-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-3-5** | $^i$Pr | H | H | $CH_2Ph$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-3-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-3-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-3-8** | $^i$Pr | * | H | * | $CH_3$ | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXI-4.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-4-1** | $^t$Bu | H | H | H | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-4-2** | $^t$Bu | H | H | $CH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-4-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-4-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-4-5** | $^t$Bu | H | H | $CH_2Ph$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-4-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-4-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-4-8** | $^t$Bu | * | H | * | $CH_3$ | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXI-5.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-5-1** | Ph | H | H | H | $CH_3$ | H | $CH_3$ | F | OH |



Gilead Exhibit 2024
PGR2023-00046 - Page 00442

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-5-2** | Ph | H | H | $CH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-5-3** | Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-5-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-5-5** | Ph | H | H | $CH_2Ph$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-5-6** | Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-5-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-5-8** | Ph | * | H | * | $CH_3$ | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXI-6.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-6-1** | p-Me-Ph | H | H | H | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-6-2** | p-Me-Ph | H | H | $CH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-6-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-6-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-6-5** | p-Me-Ph | H | H | $CH_2Ph$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-6-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-6-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-6-8** | p-Me-Ph | * | H | * | $CH_3$ | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXI-7.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-7-1** | p-F-Ph | H | H | H | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-7-2** | p-F-Ph | H | H | $CH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-7-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-7-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-7-6** | p-F-Ph | H | H | $CH_2Ph$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-7-7** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-7-8** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-7-20** | p-F-Ph | * | H | * | $CH_3$ | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXI-8.



Gilead Exhibit 2024
PGR2023-00046 - Page 00443

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-8-1** | p-Cl-Ph | H | H | H | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-8-2** | p-Cl-Ph | H | H | $CH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-8-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-8-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-8-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-8-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-8-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-8-8** | p-Cl-Ph | * | H | * | $CH_3$ | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXI-9.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-9-1** | p-Br-Ph | H | H | H | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-9-2** | p-Br-Ph | H | H | $CH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-9-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-9-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-9-6** | p-Br-Ph | H | H | $CH_2Ph$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-9-7** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-9-8** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-9-20** | p-Br-Ph | * | H | * | $CH_3$ | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXI-10.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-10-1** | p-I-Ph | H | H | H | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-10-2** | p-I-Ph | H | H | $CH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-10-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-10-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-10-5** | p-I-Ph | H | H | $CH_2Ph$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-10-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-10-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXI-10-8** | p-I-Ph | * | H | * | $CH_3$ | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00444

Table XXI-11.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-11-1** | $CH_3$ | H | H | H | Et | H | $CH_3$ | F | OH |
| **XXI-11-2** | $CH_3$ | H | H | $CH_3$ | Et | H | $CH_3$ | F | OH |
| **XXI-11-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXI-11-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXI-11-5** | $CH_3$ | H | H | $CH_2Ph$ | Et | H | $CH_3$ | F | OH |
| **XXI-11-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | Et | H | $CH_3$ | F | OH |
| **XXI-11-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | Et | H | $CH_3$ | F | OH |
| **XXI-11-8** | $CH_3$ | * | H | * | Et | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXI-12.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-12-1** | Et | H | H | H | Et | H | $CH_3$ | F | OH |
| **XXI-12-2** | Et | H | H | $CH_3$ | Et | H | $CH_3$ | F | OH |
| **XXI-12-3** | Et | H | H | $CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXI-12-4** | Et | H | H | $CH_2CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXI-12-5** | Et | H | H | $CH_2Ph$ | Et | H | $CH_3$ | F | OH |
| **XXI-12-6** | Et | H | H | $CH_2$-indol-3-yl | Et | H | $CH_3$ | F | OH |
| **XXI-12-7** | Et | H | H | $CH_2CH_2SCH_3$ | Et | H | $CH_3$ | F | OH |
| **XXI-12-8** | Et | * | H | * | Et | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXI-13.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-13-1** | $^i$Pr | H | H | H | Et | H | $CH_3$ | F | OH |
| **XXI-13-2** | $^i$Pr | H | H | $CH_3$ | Et | H | $CH_3$ | F | OH |
| **XXI-13-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXI-13-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXI-13-5** | $^i$Pr | H | H | $CH_2Ph$ | Et | H | $CH_3$ | F | OH |
| **XXI-13-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | Et | H | $CH_3$ | F | OH |
| **XXI-13-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | Et | H | $CH_3$ | F | OH |
| **XXI-13-8** | $^i$Pr | * | H | * | Et | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00445

Table XXI-14.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-14-1** | $^t$Bu | H | H | H | Et | H | $CH_3$ | F | OH |
| **XXI-14-2** | $^t$Bu | H | H | $CH_3$ | Et | H | $CH_3$ | F | OH |
| **XXI-14-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXI-14-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXI-14-5** | $^t$Bu | H | H | $CH_2Ph$ | Et | H | $CH_3$ | F | OH |
| **XXI-14-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | Et | H | $CH_3$ | F | OH |
| **XXI-14-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | Et | H | $CH_3$ | F | OH |
| **XXI-14-8** | $^t$Bu | * | H | * | Et | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXI-15.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-15-1** | Ph | H | H | H | Et | H | $CH_3$ | F | OH |
| **XXI-15-2** | Ph | H | H | $CH_3$ | Et | H | $CH_3$ | F | OH |
| **XXI-15-3** | Ph | H | H | $CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXI-15-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXI-15-5** | Ph | H | H | $CH_2Ph$ | Et | H | $CH_3$ | F | OH |
| **XXI-15-6** | Ph | H | H | $CH_2$-indol-3-yl | Et | H | $CH_3$ | F | OH |
| **XXI-15-7** | Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | $CH_3$ | F | OH |
| **XXI-15-8** | Ph | * | H | * | Et | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXI-16.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-16-1** | p-Me-Ph | H | H | H | Et | H | $CH_3$ | F | OH |
| **XXI-16-2** | p-Me-Ph | H | H | $CH_3$ | Et | H | $CH_3$ | F | OH |
| **XXI-16-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXI-16-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXI-16-5** | p-Me-Ph | H | H | $CH_2Ph$ | Et | H | $CH_3$ | F | OH |
| **XXI-16-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | Et | H | $CH_3$ | F | OH |
| **XXI-16-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | $CH_3$ | F | OH |
| **XXI-16-8** | p-Me-Ph | * | H | * | Et | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00446

Table XXI-17.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-17-1** | p-F-Ph | H | H | H | Et | H | $CH_3$ | F | OH |
| **XXI-17-2** | p-F-Ph | H | H | $CH_3$ | Et | H | $CH_3$ | F | OH |
| **XXI-17-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXI-17-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXI-17-5** | p-F-Ph | H | H | $CH_2Ph$ | Et | H | $CH_3$ | F | OH |
| **XXI-17-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | Et | H | $CH_3$ | F | OH |
| **XXI-17-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | $CH_3$ | F | OH |
| **XXI-17-8** | p-F-Ph | * | H | * | Et | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXI-18.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-18-1** | p-Cl-Ph | H | H | H | Et | H | $CH_3$ | F | OH |
| **XXI-18-2** | p-Cl-Ph | H | H | $CH_3$ | Et | H | $CH_3$ | F | OH |
| **XXI-18-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXI-18-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXI-18-5** | p-Cl-Ph | H | H | $CH_2Ph$ | Et | H | $CH_3$ | F | OH |
| **XXI-18-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | Et | H | $CH_3$ | F | OH |
| **XXI-18-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | $CH_3$ | F | OH |
| **XXI-18-8** | p-Cl-Ph | * | H | * | Et | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXI-19.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-19-1** | p-Br-Ph | H | H | H | Et | H | $CH_3$ | F | OH |
| **XXI-19-2** | p-Br-Ph | H | H | $CH_3$ | Et | H | $CH_3$ | F | OH |
| **XXI-19-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXI-19-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXI-19-5** | p-Br-Ph | H | H | $CH_2Ph$ | Et | H | $CH_3$ | F | OH |
| **XXI-19-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | Et | H | $CH_3$ | F | OH |
| **XXI-19-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | $CH_3$ | F | OH |
| **XXI-19-8** | p-Br-Ph | * | H | * | Et | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00447

Table XXI-20.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-20-1** | p-I-Ph | H | H | H | Et | H | $CH_3$ | F | OH |
| **XXI-20-2** | p-I-Ph | H | H | $CH_3$ | Et | H | $CH_3$ | F | OH |
| **XXI-20-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXI-20-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXI-20-5** | p-I-Ph | H | H | $CH_2Ph$ | Et | H | $CH_3$ | F | OH |
| **XXI-20-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | Et | H | $CH_3$ | F | OH |
| **XXI-20-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | $CH_3$ | F | OH |
| **XXI-20-8** | p-I-Ph | * | H | * | Et | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXI-21.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-21-1** | $CH_3$ | H | H | H | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-21-2** | $CH_3$ | H | H | $CH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-21-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-21-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-21-5** | $CH_3$ | H | H | $CH_2Ph$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-21-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-21-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-21-8** | $CH_3$ | * | H | * | $^i$Pr | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXI-22.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-22-1** | Et | H | H | H | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-22-2** | Et | H | H | $CH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-22-3** | Et | H | H | $CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-22-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-22-5** | Et | H | H | $CH_2Ph$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-22-6** | Et | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-22-7** | Et | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-22-8** | Et | * | H | * | $^i$Pr | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00448

Table XXI-23.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-23-1** | $^i$Pr | H | H | H | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-23-2** | $^i$Pr | H | H | $CH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-23-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-23-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-23-5** | $^i$Pr | H | H | $CH_2Ph$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-23-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-23-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-23-8** | $^i$Pr | * | H | * | $^i$Pr | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXI-24.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-24-1** | $^t$Bu | H | H | H | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-24-2** | $^t$Bu | H | H | $CH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-24-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-24-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-24-5** | $^t$Bu | H | H | $CH_2Ph$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-24-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-24-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-24-8** | $^t$Bu | * | H | * | $^i$Pr | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXI-25.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-25-1** | Ph | H | H | H | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-25-2** | Ph | H | H | $CH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-25-3** | Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-25-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-25-5** | Ph | H | H | $CH_2Ph$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-25-6** | Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-25-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-25-8** | Ph | * | H | * | $^i$Pr | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00449

Table XXI-26.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-26-1** | p-Me-Ph | H | H | H | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-26-2** | p-Me-Ph | H | H | $CH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-26-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-26-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-26-5** | p-Me-Ph | H | H | $CH_2Ph$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-26-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-26-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-26-8** | p-Me-Ph | * | H | * | $^i$Pr | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXI-27.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-27-1** | p-F-Ph | H | H | H | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-27-2** | p-F-Ph | H | H | $CH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-27-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-27-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-27-5** | p-F-Ph | H | H | $CH_2Ph$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-27-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-27-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-27-8** | p-F-Ph | * | H | * | $^i$Pr | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXI-28.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-28-1** | p-Cl-Ph | H | H | H | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-28-2** | p-Cl-Ph | H | H | $CH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-28-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-28-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-28-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-28-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-28-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-28-8** | p-Cl-Ph | * | H | * | $^i$Pr | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00450

Table XXI-29.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-29-1** | p-Br-Ph | H | H | H | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-29-2** | p-Br-Ph | H | H | $CH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-29-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-29-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-29-5** | p-Br-Ph | H | H | $CH_2Ph$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-29-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-29-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-29-8** | p-Br-Ph | * | H | * | $^i$Pr | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXI-30.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-30-1** | p-I-Ph | H | H | H | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-30-2** | p-I-Ph | H | H | $CH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-30-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-30-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-30-5** | p-I-Ph | H | H | $CH_2Ph$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-30-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-30-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXI-30-8** | p-I-Ph | * | H | * | $^i$Pr | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXI-31.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-31-1** | $CH_3$ | H | H | H | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-31-2** | $CH_3$ | H | H | $CH_3$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-31-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-31-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-31-5** | $CH_3$ | H | H | $CH_2Ph$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-31-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-31-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-31-8** | $CH_3$ | * | H | * | $^n$Bu | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00451

Table XXI-32.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-32-1** | Et | H | H | H | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-32-2** | Et | H | H | $CH_3$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-32-3** | Et | H | H | $CH(CH_3)_2$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-32-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-32-5** | Et | H | H | $CH_2Ph$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-32-6** | Et | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-32-7** | Et | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-32-8** | Et | * | H | * | $^n$Bu | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXI-33.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-33-1** | $^i$Pr | H | H | H | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-33-2** | $^i$Pr | H | H | $CH_3$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-33-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-33-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-33-5** | $^i$Pr | H | H | $CH_2Ph$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-33-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-33-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-33-8** | $^i$Pr | * | H | * | $^n$Bu | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXI-34.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-34-1** | $^t$Bu | H | H | H | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-34-2** | $^t$Bu | H | H | $CH_3$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-34-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-34-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-34-5** | $^t$Bu | H | H | $CH_2Ph$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-34-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-34-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-34-8** | $^t$Bu | * | H | * | $^n$Bu | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00452

Table XXI-35.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-35-1** | Ph | H | H | H | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-35-2** | Ph | H | H | $CH_3$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-35-3** | Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-35-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-35-5** | Ph | H | H | $CH_2Ph$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-35-6** | Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-35-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-35-8** | Ph | * | H | * | $^n$Bu | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXI-36.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-36-1** | p-Me-Ph | H | H | H | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-36-2** | p-Me-Ph | H | H | $CH_3$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-36-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-36-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-36-5** | p-Me-Ph | H | H | $CH_2Ph$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-36-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-36-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-36-8** | p-Me-Ph | * | H | * | $^n$Bu | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXI-37.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-37-1** | p-F-Ph | H | H | H | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-37-2** | p-F-Ph | H | H | $CH_3$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-37-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-37-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-37-5** | p-F-Ph | H | H | $CH_2Ph$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-37-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-37-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-37-8** | p-F-Ph | * | H | * | $^n$Bu | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00453

Table XXI-38.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-38-1** | p-Cl-Ph | H | H | H | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-38-2** | p-Cl-Ph | H | H | $CH_3$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-38-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-38-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-38-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-38-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-38-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-38-8** | p-Cl-Ph | * | H | * | $^n$Bu | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXI-39.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-39-1** | p-Br-Ph | H | H | H | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-39-2** | p-Br-Ph | H | H | $CH_3$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-39-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-39-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-39-5** | p-Br-Ph | H | H | $CH_2Ph$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-39-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-39-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-39-8** | p-Br-Ph | * | H | * | $^n$Bu | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXI-40.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-40-1** | p-I-Ph | H | H | H | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-40-2** | p-I-Ph | H | H | $CH_3$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-40-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-40-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-40-5** | p-I-Ph | H | H | $CH_2Ph$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-40-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-40-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXI-40-8** | p-I-Ph | * | H | * | $^n$Bu | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00454

Table XXI-41.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-41-1** | $CH_3$ | H | H | H | Bz | H | $CH_3$ | F | OH |
| **XXI-41-2** | $CH_3$ | H | H | $CH_3$ | Bz | H | $CH_3$ | F | OH |
| **XXI-41-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | Bz | H | $CH_3$ | F | OH |
| **XXI-41-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | Bz | H | $CH_3$ | F | OH |
| **XXI-41-5** | $CH_3$ | H | H | $CH_2Ph$ | Bz | H | $CH_3$ | F | OH |
| **XXI-41-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | Bz | H | $CH_3$ | F | OH |
| **XXI-41-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | Bz | H | $CH_3$ | F | OH |
| **XXI-41-8** | $CH_3$ | * | H | * | Bz | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXI-42.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-42-1** | Et | H | H | H | Bz | H | $CH_3$ | F | OH |
| **XXI-42-2** | Et | H | H | $CH_3$ | Bz | H | $CH_3$ | F | OH |
| **XXI-42-3** | Et | H | H | $CH(CH_3)_2$ | Bz | H | $CH_3$ | F | OH |
| **XXI-42-4** | Et | H | H | $CH_2CH(CH_3)_2$ | Bz | H | $CH_3$ | F | OH |
| **XXI-42-5** | Et | H | H | $CH_2Ph$ | Bz | H | $CH_3$ | F | OH |
| **XXI-42-6** | Et | H | H | $CH_2$-indol-3-yl | Bz | H | $CH_3$ | F | OH |
| **XXI-42-7** | Et | H | H | $CH_2CH_2SCH_3$ | Bz | H | $CH_3$ | F | OH |
| **XXI-42-8** | Et | * | H | * | Bz | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXI-43.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-43-1** | $^i$Pr | H | H | H | Bz | H | $CH_3$ | F | OH |
| **XXI-43-2** | $^i$Pr | H | H | $CH_3$ | Bz | H | $CH_3$ | F | OH |
| **XXI-43-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | Bz | H | $CH_3$ | F | OH |
| **XXI-43-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | Bz | H | $CH_3$ | F | OH |
| **XXI-43-5** | $^i$Pr | H | H | $CH_2Ph$ | Bz | H | $CH_3$ | F | OH |
| **XXI-43-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | Bz | H | $CH_3$ | F | OH |
| **XXI-43-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | Bz | H | $CH_3$ | F | OH |
| **XXI-43-8** | $^i$Pr | * | H | * | Bz | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXI-44.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-44-1** | $^t$Bu | H | H | H | Bz | H | $CH_3$ | F | OH |
| **XXI-44-2** | $^t$Bu | H | H | $CH_3$ | Bz | H | $CH_3$ | F | OH |
| **XXI-44-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | Bz | H | $CH_3$ | F | OH |
| **XXI-44-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | Bz | H | $CH_3$ | F | OH |
| **XXI-44-5** | $^t$Bu | H | H | $CH_2Ph$ | Bz | H | $CH_3$ | F | OH |
| **XXI-44-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | Bz | H | $CH_3$ | F | OH |
| **XXI-44-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | Bz | H | $CH_3$ | F | OH |
| **XXI-44-8** | $^t$Bu | * | H | * | Bz | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXI-45.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-45-1** | Ph | H | H | H | Bz | H | $CH_3$ | F | OH |
| **XXI-45-2** | Ph | H | H | $CH_3$ | Bz | H | $CH_3$ | F | OH |
| **XXI-45-3** | Ph | H | H | $CH(CH_3)_2$ | Bz | H | $CH_3$ | F | OH |
| **XXI-45-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | H | $CH_3$ | F | OH |
| **XXI-45-5** | Ph | H | H | $CH_2Ph$ | Bz | H | $CH_3$ | F | OH |
| **XXI-45-6** | Ph | H | H | $CH_2$-indol-3-yl | Bz | H | $CH_3$ | F | OH |
| **XXI-45-7** | Ph | H | H | $CH_2CH_2SCH_3$ | Bz | H | $CH_3$ | F | OH |
| **XXI-45-8** | Ph | * | H | * | Bz | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXI-46.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-46-1** | p-Me-Ph | H | H | H | Bz | H | $CH_3$ | F | OH |
| **XXI-46-2** | p-Me-Ph | H | H | $CH_3$ | Bz | H | $CH_3$ | F | OH |
| **XXI-46-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | Bz | H | $CH_3$ | F | OH |
| **XXI-46-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | H | $CH_3$ | F | OH |
| **XXI-46-5** | p-Me-Ph | H | H | $CH_2Ph$ | Bz | H | $CH_3$ | F | OH |
| **XXI-46-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | Bz | H | $CH_3$ | F | OH |
| **XXI-46-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | H | $CH_3$ | F | OH |



Gilead Exhibit 2024
PGR2023-00046 - Page 00456

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-46-8** | p-Me-Ph | * | H | * | Bz | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXI-47.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-47-1** | p-F-Ph | H | H | H | Bz | H | $CH_3$ | F | OH |
| **XXI-47-2** | p-F-Ph | H | H | $CH_3$ | Bz | H | $CH_3$ | F | OH |
| **XXI-47-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | Bz | H | $CH_3$ | F | OH |
| **XXI-47-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | H | $CH_3$ | F | OH |
| **XXI-47-5** | p-F-Ph | H | H | $CH_2Ph$ | Bz | H | $CH_3$ | F | OH |
| **XXI-47-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | Bz | H | $CH_3$ | F | OH |
| **XXI-47-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | H | $CH_3$ | F | OH |
| **XXI-47-8** | p-F-Ph | * | H | * | Bz | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXI-48.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-48-1** | p-Cl-Ph | H | H | H | Bz | H | $CH_3$ | F | OH |
| **XXI-48-2** | p-Cl-Ph | H | H | $CH_3$ | Bz | H | $CH_3$ | F | OH |
| **XXI-48-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | Bz | H | $CH_3$ | F | OH |
| **XXI-48-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | H | $CH_3$ | F | OH |
| **XXI-48-5** | p-Cl-Ph | H | H | $CH_2Ph$ | Bz | H | $CH_3$ | F | OH |
| **XXI-48-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | Bz | H | $CH_3$ | F | OH |
| **XXI-48-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | H | $CH_3$ | F | OH |
| **XXI-48-8** | p-Cl-Ph | * | H | * | Bz | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXI-49.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-49-1** | p-Br-Ph | H | H | H | Bz | H | $CH_3$ | F | OH |
| **XXI-49-2** | p-Br-Ph | H | H | $CH_3$ | Bz | H | $CH_3$ | F | OH |
| **XXI-49-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | Bz | H | $CH_3$ | F | OH |
| **XXI-49-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | H | $CH_3$ | F | OH |
| **XXI-49-5** | p-Br-Ph | H | H | $CH_2Ph$ | Bz | H | $CH_3$ | F | OH |



Gilead Exhibit 2024
PGR2023-00046 - Page 00457

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-49-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | Bz | H | $CH_3$ | F | OH |
| **XXI-49-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | H | $CH_3$ | F | OH |
| **XXI-49-8** | p-Br-Ph | * | H | * | Bz | H | $CH_3$ | F | OH |

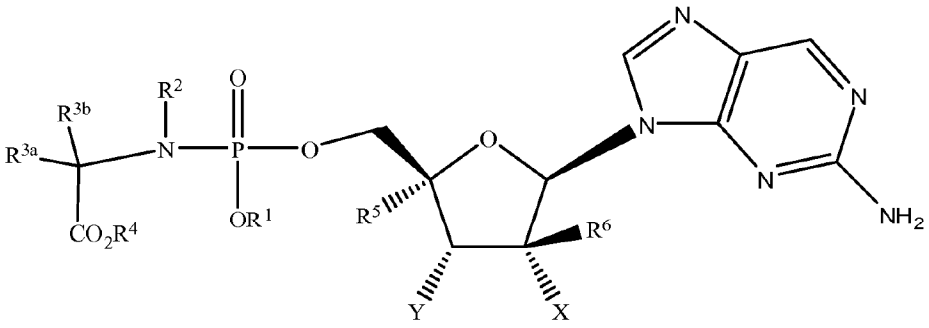
*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXI-50.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXI-50-1** | p-I-Ph | H | H | H | Bz | H | $CH_3$ | F | OH |
| **XXI-50-2** | p-I-Ph | H | H | $CH_3$ | Bz | H | $CH_3$ | F | OH |
| **XXI-50-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | Bz | H | $CH_3$ | F | OH |
| **XXI-50-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | H | $CH_3$ | F | OH |
| **XXI-50-5** | p-I-Ph | H | H | $CH_2Ph$ | Bz | H | $CH_3$ | F | OH |
| **XXI-50-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | Bz | H | $CH_3$ | F | OH |
| **XXI-50-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | H | $CH_3$ | F | OH |
| **XXI-50-8** | p-I-Ph | * | H | * | Bz | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

5




**XXII**

Table XXII-1.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-1-1** | $CH_3$ | H | H | H | $CH_3$ | H | F | H | OH |
| **XXII-1-2** | $CH_3$ | H | H | $CH_3$ | $CH_3$ | H | F | H | OH |
| **XXII-1-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $CH_3$ | H | F | H | OH |



Gilead Exhibit 2024
PGR2023-00046 - Page 00458

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-1-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | F | H | OH |
| **XXII-1-5** | $CH_3$ | H | H | $CH_2Ph$ | $CH_3$ | H | F | H | OH |
| **XXII-1-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | F | H | OH |
| **XXII-1-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | F | H | OH |
| **XXII-1-8** | $CH_3$ | * | H | * | $CH_3$ | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXII-2.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-2-1** | Et | H | H | H | $CH_3$ | H | F | H | OH |
| **XXII-2-2** | Et | H | H | $CH_3$ | $CH_3$ | H | F | H | OH |
| **XXII-2-3** | Et | H | H | $CH(CH_3)_2$ | $CH_3$ | H | F | H | OH |
| **XXII-2-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | F | H | OH |
| **XXII-2-5** | Et | H | H | $CH_2Ph$ | $CH_3$ | H | F | H | OH |
| **XXII-2-6** | Et | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | F | H | OH |
| **XXII-2-7** | Et | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | F | H | OH |
| **XXII-2-8** | Et | * | H | * | $CH_3$ | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXII-3.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-3-1** | $^i$Pr | H | H | H | $CH_3$ | H | F | H | OH |
| **XXII-3-2** | $^i$Pr | H | H | $CH_3$ | $CH_3$ | H | F | H | OH |
| **XXII-3-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $CH_3$ | H | F | H | OH |
| **XXII-3-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | F | H | OH |
| **XXII-3-5** | $^i$Pr | H | H | $CH_2Ph$ | $CH_3$ | H | F | H | OH |
| **XXII-3-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | F | H | OH |
| **XXII-3-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | F | H | OH |
| **XXII-3-8** | $^i$Pr | * | H | * | $CH_3$ | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXII-4.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-4-1** | $^t$Bu | H | H | H | $CH_3$ | H | F | H | OH |



Gilead Exhibit 2024
PGR2023-00046 - Page 00459

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-4-2** | $^t$Bu | H | H | $CH_3$ | $CH_3$ | H | F | H | OH |
| **XXII-4-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $CH_3$ | H | F | H | OH |
| **XXII-4-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | F | H | OH |
| **XXII-4-5** | $^t$Bu | H | H | $CH_2Ph$ | $CH_3$ | H | F | H | OH |
| **XXII-4-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | F | H | OH |
| **XXII-4-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | F | H | OH |
| **XXII-4-8** | $^t$Bu | * | H | * | $CH_3$ | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXII-5.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-5-1** | Ph | H | H | H | $CH_3$ | H | F | H | OH |
| **XXII-5-2** | Ph | H | H | $CH_3$ | $CH_3$ | H | F | H | OH |
| **XXII-5-3** | Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | F | H | OH |
| **XXII-5-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | F | H | OH |
| **XXII-5-5** | Ph | H | H | $CH_2Ph$ | $CH_3$ | H | F | H | OH |
| **XXII-5-6** | Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | F | H | OH |
| **XXII-5-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | F | H | OH |
| **XXII-5-8** | Ph | * | H | * | $CH_3$ | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXII-6.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-6-1** | p-Me-Ph | H | H | H | $CH_3$ | H | F | H | OH |
| **XXII-6-2** | p-Me-Ph | H | H | $CH_3$ | $CH_3$ | H | F | H | OH |
| **XXII-6-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | F | H | OH |
| **XXII-6-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | F | H | OH |
| **XXII-6-5** | p-Me-Ph | H | H | $CH_2Ph$ | $CH_3$ | H | F | H | OH |
| **XXII-6-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | F | H | OH |
| **XXII-6-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | F | H | OH |
| **XXII-6-8** | p-Me-Ph | * | H | * | $CH_3$ | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXII-7.



Gilead Exhibit 2024
PGR2023-00046 - Page 00460

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-7-1** | p-F-Ph | H | H | H | $CH_3$ | H | F | H | OH |
| **XXII-7-2** | p-F-Ph | H | H | $CH_3$ | $CH_3$ | H | F | H | OH |
| **XXII-7-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | F | H | OH |
| **XXII-7-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | F | H | OH |
| **XXII-7-6** | p-F-Ph | H | H | $CH_2Ph$ | $CH_3$ | H | F | H | OH |
| **XXII-7-7** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | F | H | OH |
| **XXII-7-8** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | F | H | OH |
| **XXII-7-20** | p-F-Ph | * | H | * | $CH_3$ | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXII-8.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-8-1** | p-Cl-Ph | H | H | H | $CH_3$ | H | F | H | OH |
| **XXII-8-2** | p-Cl-Ph | H | H | $CH_3$ | $CH_3$ | H | F | H | OH |
| **XXII-8-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | F | H | OH |
| **XXII-8-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | F | H | OH |
| **XXII-8-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $CH_3$ | H | F | H | OH |
| **XXII-8-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | F | H | OH |
| **XXII-8-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | F | H | OH |
| **XXII-8-8** | p-Cl-Ph | * | H | * | $CH_3$ | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXII-9.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-9-1** | p-Br-Ph | H | H | H | $CH_3$ | H | F | H | OH |
| **XXII-9-2** | p-Br-Ph | H | H | $CH_3$ | $CH_3$ | H | F | H | OH |
| **XXII-9-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | F | H | OH |
| **XXII-9-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | F | H | OH |
| **XXII-9-6** | p-Br-Ph | H | H | $CH_2Ph$ | $CH_3$ | H | F | H | OH |
| **XXII-9-7** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | F | H | OH |
| **XXII-9-8** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | F | H | OH |
| **XXII-9-20** | p-Br-Ph | * | H | * | $CH_3$ | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00461

Table XXII-10.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-10-1** | p-I-Ph | H | H | H | $CH_3$ | H | F | H | OH |
| **XXII-10-2** | p-I-Ph | H | H | $CH_3$ | $CH_3$ | H | F | H | OH |
| **XXII-10-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | F | H | OH |
| **XXII-10-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | F | H | OH |
| **XXII-10-5** | p-I-Ph | H | H | $CH_2Ph$ | $CH_3$ | H | F | H | OH |
| **XXII-10-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | F | H | OH |
| **XXII-10-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | F | H | OH |
| **XXII-10-8** | p-I-Ph | * | H | * | $CH_3$ | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXII-11.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-11-1** | $CH_3$ | H | H | H | Et | H | F | H | OH |
| **XXII-11-2** | $CH_3$ | H | H | $CH_3$ | Et | H | F | H | OH |
| **XXII-11-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | Et | H | F | H | OH |
| **XXII-11-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | Et | H | F | H | OH |
| **XXII-11-5** | $CH_3$ | H | H | $CH_2Ph$ | Et | H | F | H | OH |
| **XXII-11-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | Et | H | F | H | OH |
| **XXII-11-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | Et | H | F | H | OH |
| **XXII-11-8** | $CH_3$ | * | H | * | Et | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXII-12.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-12-1** | Et | H | H | H | Et | H | F | H | OH |
| **XXII-12-2** | Et | H | H | $CH_3$ | Et | H | F | H | OH |
| **XXII-12-3** | Et | H | H | $CH(CH_3)_2$ | Et | H | F | H | OH |
| **XXII-12-4** | Et | H | H | $CH_2CH(CH_3)_2$ | Et | H | F | H | OH |
| **XXII-12-5** | Et | H | H | $CH_2Ph$ | Et | H | F | H | OH |
| **XXII-12-6** | Et | H | H | $CH_2$-indol-3-yl | Et | H | F | H | OH |
| **XXII-12-7** | Et | H | H | $CH_2CH_2SCH_3$ | Et | H | F | H | OH |
| **XXII-12-8** | Et | * | H | * | Et | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00462

Table XXII-13.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-13-1** | $^i$Pr | H | H | H | Et | H | F | H | OH |
| **XXII-13-2** | $^i$Pr | H | H | $CH_3$ | Et | H | F | H | OH |
| **XXII-13-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | Et | H | F | H | OH |
| **XXII-13-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | Et | H | F | H | OH |
| **XXII-13-5** | $^i$Pr | H | H | $CH_2Ph$ | Et | H | F | H | OH |
| **XXII-13-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | Et | H | F | H | OH |
| **XXII-13-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | Et | H | F | H | OH |
| **XXII-13-8** | $^i$Pr | * | H | * | Et | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXII-14.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-14-1** | $^t$Bu | H | H | H | Et | H | F | H | OH |
| **XXII-14-2** | $^t$Bu | H | H | $CH_3$ | Et | H | F | H | OH |
| **XXII-14-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | Et | H | F | H | OH |
| **XXII-14-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | Et | H | F | H | OH |
| **XXII-14-5** | $^t$Bu | H | H | $CH_2Ph$ | Et | H | F | H | OH |
| **XXII-14-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | Et | H | F | H | OH |
| **XXII-14-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | Et | H | F | H | OH |
| **XXII-14-8** | $^t$Bu | * | H | * | Et | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXII-15.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-15-1** | Ph | H | H | H | Et | H | F | H | OH |
| **XXII-15-2** | Ph | H | H | $CH_3$ | Et | H | F | H | OH |
| **XXII-15-3** | Ph | H | H | $CH(CH_3)_2$ | Et | H | F | H | OH |
| **XXII-15-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | F | H | OH |
| **XXII-15-5** | Ph | H | H | $CH_2Ph$ | Et | H | F | H | OH |
| **XXII-15-6** | Ph | H | H | $CH_2$-indol-3-yl | Et | H | F | H | OH |
| **XXII-15-7** | Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | F | H | OH |
| **XXII-15-8** | Ph | * | H | * | Et | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00463

Table XXII-16.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-16-1** | p-Me-Ph | H | H | H | Et | H | F | H | OH |
| **XXII-16-2** | p-Me-Ph | H | H | $CH_3$ | Et | H | F | H | OH |
| **XXII-16-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | Et | H | F | H | OH |
| **XXII-16-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | F | H | OH |
| **XXII-16-5** | p-Me-Ph | H | H | $CH_2Ph$ | Et | H | F | H | OH |
| **XXII-16-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | Et | H | F | H | OH |
| **XXII-16-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | F | H | OH |
| **XXII-16-8** | p-Me-Ph | * | H | * | Et | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXII-17.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-17-1** | p-F-Ph | H | H | H | Et | H | F | H | OH |
| **XXII-17-2** | p-F-Ph | H | H | $CH_3$ | Et | H | F | H | OH |
| **XXII-17-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | Et | H | F | H | OH |
| **XXII-17-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | F | H | OH |
| **XXII-17-5** | p-F-Ph | H | H | $CH_2Ph$ | Et | H | F | H | OH |
| **XXII-17-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | Et | H | F | H | OH |
| **XXII-17-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | F | H | OH |
| **XXII-17-8** | p-F-Ph | * | H | * | Et | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXII-18.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-18-1** | p-Cl-Ph | H | H | H | Et | H | F | H | OH |
| **XXII-18-2** | p-Cl-Ph | H | H | $CH_3$ | Et | H | F | H | OH |
| **XXII-18-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | Et | H | F | H | OH |
| **XXII-18-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | F | H | OH |
| **XXII-18-5** | p-Cl-Ph | H | H | $CH_2Ph$ | Et | H | F | H | OH |
| **XXII-18-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | Et | H | F | H | OH |
| **XXII-18-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | F | H | OH |
| **XXII-18-8** | p-Cl-Ph | * | H | * | Et | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00464

Table XXII-19.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-19-1** | p-Br-Ph | H | H | H | Et | H | F | H | OH |
| **XXII-19-2** | p-Br-Ph | H | H | $CH_3$ | Et | H | F | H | OH |
| **XXII-19-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | Et | H | F | H | OH |
| **XXII-19-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | F | H | OH |
| **XXII-19-5** | p-Br-Ph | H | H | $CH_2Ph$ | Et | H | F | H | OH |
| **XXII-19-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | Et | H | F | H | OH |
| **XXII-19-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | F | H | OH |
| **XXII-19-8** | p-Br-Ph | * | H | * | Et | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXII-20.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-20-1** | p-I-Ph | H | H | H | Et | H | F | H | OH |
| **XXII-20-2** | p-I-Ph | H | H | $CH_3$ | Et | H | F | H | OH |
| **XXII-20-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | Et | H | F | H | OH |
| **XXII-20-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | F | H | OH |
| **XXII-20-5** | p-I-Ph | H | H | $CH_2Ph$ | Et | H | F | H | OH |
| **XXII-20-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | Et | H | F | H | OH |
| **XXII-20-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | F | H | OH |
| **XXII-20-8** | p-I-Ph | * | H | * | Et | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXII-21.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-21-1** | $CH_3$ | H | H | H | $^i$Pr | H | F | H | OH |
| **XXII-21-2** | $CH_3$ | H | H | $CH_3$ | $^i$Pr | H | F | H | OH |
| **XXII-21-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $^i$Pr | H | F | H | OH |
| **XXII-21-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | F | H | OH |
| **XXII-21-5** | $CH_3$ | H | H | $CH_2Ph$ | $^i$Pr | H | F | H | OH |
| **XXII-21-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | F | H | OH |
| **XXII-21-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | F | H | OH |
| **XXII-21-8** | $CH_3$ | * | H | * | $^i$Pr | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXII-22.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-22-1** | Et | H | H | H | $^i$Pr | H | F | H | OH |
| **XXII-22-2** | Et | H | H | $CH_3$ | $^i$Pr | H | F | H | OH |
| **XXII-22-3** | Et | H | H | $CH(CH_3)_2$ | $^i$Pr | H | F | H | OH |
| **XXII-22-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | F | H | OH |
| **XXII-22-5** | Et | H | H | $CH_2Ph$ | $^i$Pr | H | F | H | OH |
| **XXII-22-6** | Et | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | F | H | OH |
| **XXII-22-7** | Et | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | F | H | OH |
| **XXII-22-8** | Et | * | H | * | $^i$Pr | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXII-23.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-23-1** | $^i$Pr | H | H | H | $^i$Pr | H | F | H | OH |
| **XXII-23-2** | $^i$Pr | H | H | $CH_3$ | $^i$Pr | H | F | H | OH |
| **XXII-23-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $^i$Pr | H | F | H | OH |
| **XXII-23-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | F | H | OH |
| **XXII-23-5** | $^i$Pr | H | H | $CH_2Ph$ | $^i$Pr | H | F | H | OH |
| **XXII-23-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | F | H | OH |
| **XXII-23-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | F | H | OH |
| **XXII-23-8** | $^i$Pr | * | H | * | $^i$Pr | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXII-24.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-24-1** | $^t$Bu | H | H | H | $^i$Pr | H | F | H | OH |
| **XXII-24-2** | $^t$Bu | H | H | $CH_3$ | $^i$Pr | H | F | H | OH |
| **XXII-24-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $^i$Pr | H | F | H | OH |
| **XXII-24-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | F | H | OH |
| **XXII-24-5** | $^t$Bu | H | H | $CH_2Ph$ | $^i$Pr | H | F | H | OH |
| **XXII-24-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | F | H | OH |
| **XXII-24-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | F | H | OH |
| **XXII-24-8** | $^t$Bu | * | H | * | $^i$Pr | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00466

Table XXII-25.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-25-1** | Ph | H | H | H | $^i$Pr | H | F | H | OH |
| **XXII-25-2** | Ph | H | H | $CH_3$ | $^i$Pr | H | F | H | OH |
| **XXII-25-3** | Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | F | H | OH |
| **XXII-25-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | F | H | OH |
| **XXII-25-5** | Ph | H | H | $CH_2Ph$ | $^i$Pr | H | F | H | OH |
| **XXII-25-6** | Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | F | H | OH |
| **XXII-25-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | F | H | OH |
| **XXII-25-8** | Ph | * | H | * | $^i$Pr | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXII-26.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-26-1** | p-Me-Ph | H | H | H | $^i$Pr | H | F | H | OH |
| **XXII-26-2** | p-Me-Ph | H | H | $CH_3$ | $^i$Pr | H | F | H | OH |
| **XXII-26-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | F | H | OH |
| **XXII-26-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | F | H | OH |
| **XXII-26-5** | p-Me-Ph | H | H | $CH_2Ph$ | $^i$Pr | H | F | H | OH |
| **XXII-26-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | F | H | OH |
| **XXII-26-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | F | H | OH |
| **XXII-26-8** | p-Me-Ph | * | H | * | $^i$Pr | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXII-27.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-27-1** | p-F-Ph | H | H | H | $^i$Pr | H | F | H | OH |
| **XXII-27-2** | p-F-Ph | H | H | $CH_3$ | $^i$Pr | H | F | H | OH |
| **XXII-27-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | F | H | OH |
| **XXII-27-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | F | H | OH |
| **XXII-27-5** | p-F-Ph | H | H | $CH_2Ph$ | $^i$Pr | H | F | H | OH |
| **XXII-27-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | F | H | OH |
| **XXII-27-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | F | H | OH |
| **XXII-27-8** | p-F-Ph | * | H | * | $^i$Pr | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00467

Table XXII-28.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-28-1** | p-Cl-Ph | H | H | H | $^i$Pr | H | F | H | OH |
| **XXII-28-2** | p-Cl-Ph | H | H | $CH_3$ | $^i$Pr | H | F | H | OH |
| **XXII-28-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | F | H | OH |
| **XXII-28-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | F | H | OH |
| **XXII-28-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $^i$Pr | H | F | H | OH |
| **XXII-28-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | F | H | OH |
| **XXII-28-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | F | H | OH |
| **XXII-28-8** | p-Cl-Ph | * | H | * | $^i$Pr | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXII-29.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-29-1** | p-Br-Ph | H | H | H | $^i$Pr | H | F | H | OH |
| **XXII-29-2** | p-Br-Ph | H | H | $CH_3$ | $^i$Pr | H | F | H | OH |
| **XXII-29-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | F | H | OH |
| **XXII-29-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | F | H | OH |
| **XXII-29-5** | p-Br-Ph | H | H | $CH_2Ph$ | $^i$Pr | H | F | H | OH |
| **XXII-29-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | F | H | OH |
| **XXII-29-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | F | H | OH |
| **XXII-29-8** | p-Br-Ph | * | H | * | $^i$Pr | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXII-30.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-30-1** | p-I-Ph | H | H | H | $^i$Pr | H | F | H | OH |
| **XXII-30-2** | p-I-Ph | H | H | $CH_3$ | $^i$Pr | H | F | H | OH |
| **XXII-30-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | F | H | OH |
| **XXII-30-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | F | H | OH |
| **XXII-30-5** | p-I-Ph | H | H | $CH_2Ph$ | $^i$Pr | H | F | H | OH |
| **XXII-30-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | F | H | OH |
| **XXII-30-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | F | H | OH |
| **XXII-30-8** | p-I-Ph | * | H | * | $^i$Pr | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00468

Table XXII-31.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-31-1** | $CH_3$ | H | H | H | $^n$Bu | H | F | H | OH |
| **XXII-31-2** | $CH_3$ | H | H | $CH_3$ | $^n$Bu | H | F | H | OH |
| **XXII-31-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $^n$Bu | H | F | H | OH |
| **XXII-31-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | F | H | OH |
| **XXII-31-5** | $CH_3$ | H | H | $CH_2Ph$ | $^n$Bu | H | F | H | OH |
| **XXII-31-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | F | H | OH |
| **XXII-31-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | F | H | OH |
| **XXII-31-8** | $CH_3$ | * | H | * | $^n$Bu | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXII-32.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-32-1** | Et | H | H | H | $^n$Bu | H | F | H | OH |
| **XXII-32-2** | Et | H | H | $CH_3$ | $^n$Bu | H | F | H | OH |
| **XXII-32-3** | Et | H | H | $CH(CH_3)_2$ | $^n$Bu | H | F | H | OH |
| **XXII-32-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | F | H | OH |
| **XXII-32-5** | Et | H | H | $CH_2Ph$ | $^n$Bu | H | F | H | OH |
| **XXII-32-6** | Et | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | F | H | OH |
| **XXII-32-7** | Et | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | F | H | OH |
| **XXII-32-8** | Et | * | H | * | $^n$Bu | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXII-33.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-33-1** | $^i$Pr | H | H | H | $^n$Bu | H | F | H | OH |
| **XXII-33-2** | $^i$Pr | H | H | $CH_3$ | $^n$Bu | H | F | H | OH |
| **XXII-33-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $^n$Bu | H | F | H | OH |
| **XXII-33-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | F | H | OH |
| **XXII-33-5** | $^i$Pr | H | H | $CH_2Ph$ | $^n$Bu | H | F | H | OH |
| **XXII-33-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | F | H | OH |
| **XXII-33-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | F | H | OH |
| **XXII-33-8** | $^i$Pr | * | H | * | $^n$Bu | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00469

Table XXII-34.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-34-1** | $^t$Bu | H | H | H | $^n$Bu | H | F | H | OH |
| **XXII-34-2** | $^t$Bu | H | H | $CH_3$ | $^n$Bu | H | F | H | OH |
| **XXII-34-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $^n$Bu | H | F | H | OH |
| **XXII-34-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | F | H | OH |
| **XXII-34-5** | $^t$Bu | H | H | $CH_2Ph$ | $^n$Bu | H | F | H | OH |
| **XXII-34-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | F | H | OH |
| **XXII-34-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | F | H | OH |
| **XXII-34-8** | $^t$Bu | * | H | * | $^n$Bu | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXII-35.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-35-1** | Ph | H | H | H | $^n$Bu | H | F | H | OH |
| **XXII-35-2** | Ph | H | H | $CH_3$ | $^n$Bu | H | F | H | OH |
| **XXII-35-3** | Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | H | F | H | OH |
| **XXII-35-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | F | H | OH |
| **XXII-35-5** | Ph | H | H | $CH_2Ph$ | $^n$Bu | H | F | H | OH |
| **XXII-35-6** | Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | F | H | OH |
| **XXII-35-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | F | H | OH |
| **XXII-35-8** | Ph | * | H | * | $^n$Bu | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXII-36.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-36-1** | p-Me-Ph | H | H | H | $^n$Bu | H | F | H | OH |
| **XXII-36-2** | p-Me-Ph | H | H | $CH_3$ | $^n$Bu | H | F | H | OH |
| **XXII-36-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | H | F | H | OH |
| **XXII-36-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | F | H | OH |
| **XXII-36-5** | p-Me-Ph | H | H | $CH_2Ph$ | $^n$Bu | H | F | H | OH |
| **XXII-36-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | F | H | OH |
| **XXII-36-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | F | H | OH |
| **XXII-36-8** | p-Me-Ph | * | H | * | $^n$Bu | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00470

Table XXII-37.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-37-1** | p-F-Ph | H | H | H | $^n$Bu | H | F | H | OH |
| **XXII-37-2** | p-F-Ph | H | H | $CH_3$ | $^n$Bu | H | F | H | OH |
| **XXII-37-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | H | F | H | OH |
| **XXII-37-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | F | H | OH |
| **XXII-37-5** | p-F-Ph | H | H | $CH_2Ph$ | $^n$Bu | H | F | H | OH |
| **XXII-37-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | F | H | OH |
| **XXII-37-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | F | H | OH |
| **XXII-37-8** | p-F-Ph | * | H | * | $^n$Bu | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXII-38.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-38-1** | p-Cl-Ph | H | H | H | $^n$Bu | H | F | H | OH |
| **XXII-38-2** | p-Cl-Ph | H | H | $CH_3$ | $^n$Bu | H | F | H | OH |
| **XXII-38-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | H | F | H | OH |
| **XXII-38-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | F | H | OH |
| **XXII-38-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $^n$Bu | H | F | H | OH |
| **XXII-38-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | F | H | OH |
| **XXII-38-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | F | H | OH |
| **XXII-38-8** | p-Cl-Ph | * | H | * | $^n$Bu | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXII-39.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-39-1** | p-Br-Ph | H | H | H | $^n$Bu | H | F | H | OH |
| **XXII-39-2** | p-Br-Ph | H | H | $CH_3$ | $^n$Bu | H | F | H | OH |
| **XXII-39-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | H | F | H | OH |
| **XXII-39-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | F | H | OH |
| **XXII-39-5** | p-Br-Ph | H | H | $CH_2Ph$ | $^n$Bu | H | F | H | OH |
| **XXII-39-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | F | H | OH |
| **XXII-39-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | F | H | OH |
| **XXII-39-8** | p-Br-Ph | * | H | * | $^n$Bu | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00471

Table XXII-40.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-40-1** | p-I-Ph | H | H | H | $^n$Bu | H | F | H | OH |
| **XXII-40-2** | p-I-Ph | H | H | $CH_3$ | $^n$Bu | H | F | H | OH |
| **XXII-40-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | H | F | H | OH |
| **XXII-40-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | F | H | OH |
| **XXII-40-5** | p-I-Ph | H | H | $CH_2Ph$ | $^n$Bu | H | F | H | OH |
| **XXII-40-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | F | H | OH |
| **XXII-40-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | F | H | OH |
| **XXII-40-8** | p-I-Ph | * | H | * | $^n$Bu | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXII-41.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-41-1** | $CH_3$ | H | H | H | Bz | H | F | H | OH |
| **XXII-41-2** | $CH_3$ | H | H | $CH_3$ | Bz | H | F | H | OH |
| **XXII-41-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | Bz | H | F | H | OH |
| **XXII-41-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | Bz | H | F | H | OH |
| **XXII-41-5** | $CH_3$ | H | H | $CH_2Ph$ | Bz | H | F | H | OH |
| **XXII-41-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | Bz | H | F | H | OH |
| **XXII-41-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | Bz | H | F | H | OH |
| **XXII-41-8** | $CH_3$ | * | H | * | Bz | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXII-42.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-42-1** | Et | H | H | H | Bz | H | F | H | OH |
| **XXII-42-2** | Et | H | H | $CH_3$ | Bz | H | F | H | OH |
| **XXII-42-3** | Et | H | H | $CH(CH_3)_2$ | Bz | H | F | H | OH |
| **XXII-42-4** | Et | H | H | $CH_2CH(CH_3)_2$ | Bz | H | F | H | OH |
| **XXII-42-5** | Et | H | H | $CH_2Ph$ | Bz | H | F | H | OH |
| **XXII-42-6** | Et | H | H | $CH_2$-indol-3-yl | Bz | H | F | H | OH |
| **XXII-42-7** | Et | H | H | $CH_2CH_2SCH_3$ | Bz | H | F | H | OH |
| **XXII-42-8** | Et | * | H | * | Bz | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00472

Table XXII-43.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-43-1** | $^i$Pr | H | H | H | Bz | H | F | H | OH |
| **XXII-43-2** | $^i$Pr | H | H | $CH_3$ | Bz | H | F | H | OH |
| **XXII-43-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | Bz | H | F | H | OH |
| **XXII-43-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | Bz | H | F | H | OH |
| **XXII-43-5** | $^i$Pr | H | H | $CH_2Ph$ | Bz | H | F | H | OH |
| **XXII-43-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | Bz | H | F | H | OH |
| **XXII-43-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | Bz | H | F | H | OH |
| **XXII-43-8** | $^i$Pr | * | H | * | Bz | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXII-44.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-44-1** | $^t$Bu | H | H | H | Bz | H | F | H | OH |
| **XXII-44-2** | $^t$Bu | H | H | $CH_3$ | Bz | H | F | H | OH |
| **XXII-44-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | Bz | H | F | H | OH |
| **XXII-44-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | Bz | H | F | H | OH |
| **XXII-44-5** | $^t$Bu | H | H | $CH_2Ph$ | Bz | H | F | H | OH |
| **XXII-44-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | Bz | H | F | H | OH |
| **XXII-44-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | Bz | H | F | H | OH |
| **XXII-44-8** | $^t$Bu | * | H | * | Bz | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXII-45.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-45-1** | Ph | H | H | H | Bz | H | F | H | OH |
| **XXII-45-2** | Ph | H | H | $CH_3$ | Bz | H | F | H | OH |
| **XXII-45-3** | Ph | H | H | $CH(CH_3)_2$ | Bz | H | F | H | OH |
| **XXII-45-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | H | F | H | OH |
| **XXII-45-5** | Ph | H | H | $CH_2Ph$ | Bz | H | F | H | OH |
| **XXII-45-6** | Ph | H | H | $CH_2$-indol-3-yl | Bz | H | F | H | OH |
| **XXII-45-7** | Ph | H | H | $CH_2CH_2SCH_3$ | Bz | H | F | H | OH |
| **XXII-45-8** | Ph | * | H | * | Bz | H | F | H | OH |



Gilead Exhibit 2024
PGR2023-00046 - Page 00473

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXII-46.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-46-1** | p-Me-Ph | H | H | H | Bz | H | F | H | OH |
| **XXII-46-2** | p-Me-Ph | H | H | $CH_3$ | Bz | H | F | H | OH |
| **XXII-46-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | Bz | H | F | H | OH |
| **XXII-46-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | H | F | H | OH |
| **XXII-46-5** | p-Me-Ph | H | H | $CH_2Ph$ | Bz | H | F | H | OH |
| **XXII-46-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | Bz | H | F | H | OH |
| **XXII-46-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | H | F | H | OH |
| **XXII-46-8** | p-Me-Ph | * | H | * | Bz | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXII-47.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-47-1** | p-F-Ph | H | H | H | Bz | H | F | H | OH |
| **XXII-47-2** | p-F-Ph | H | H | $CH_3$ | Bz | H | F | H | OH |
| **XXII-47-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | Bz | H | F | H | OH |
| **XXII-47-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | H | F | H | OH |
| **XXII-47-5** | p-F-Ph | H | H | $CH_2Ph$ | Bz | H | F | H | OH |
| **XXII-47-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | Bz | H | F | H | OH |
| **XXII-47-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | H | F | H | OH |
| **XXII-47-8** | p-F-Ph | * | H | * | Bz | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXII-48.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-48-1** | p-Cl-Ph | H | H | H | Bz | H | F | H | OH |
| **XXII-48-2** | p-Cl-Ph | H | H | $CH_3$ | Bz | H | F | H | OH |
| **XXII-48-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | Bz | H | F | H | OH |
| **XXII-48-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | H | F | H | OH |
| **XXII-48-5** | p-Cl-Ph | H | H | $CH_2Ph$ | Bz | H | F | H | OH |
| **XXII-48-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | Bz | H | F | H | OH |
| **XXII-48-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | H | F | H | OH |



Gilead Exhibit 2024
PGR2023-00046 - Page 00474

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-48-8** | p-Cl-Ph | * | H | * | Bz | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXII-49.

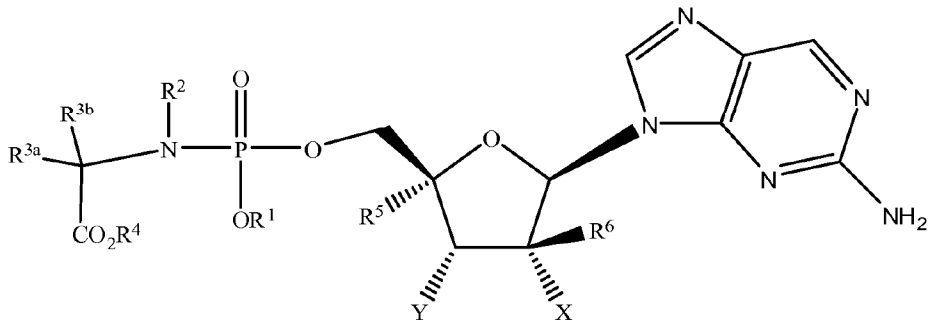
| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-49-1** | p-Br-Ph | H | H | H | Bz | H | F | H | OH |
| **XXII-49-2** | p-Br-Ph | H | H | $CH_3$ | Bz | H | F | H | OH |
| **XXII-49-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | Bz | H | F | H | OH |
| **XXII-49-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | H | F | H | OH |
| **XXII-49-5** | p-Br-Ph | H | H | $CH_2Ph$ | Bz | H | F | H | OH |
| **XXII-49-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | Bz | H | F | H | OH |
| **XXII-49-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | H | F | H | OH |
| **XXII-49-8** | p-Br-Ph | * | H | * | Bz | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXII-50.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXII-50-1** | p-I-Ph | H | H | H | Bz | H | F | H | OH |
| **XXII-50-2** | p-I-Ph | H | H | $CH_3$ | Bz | H | F | H | OH |
| **XXII-50-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | Bz | H | F | H | OH |
| **XXII-50-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | H | F | H | OH |
| **XXII-50-5** | p-I-Ph | H | H | $CH_2Ph$ | Bz | H | F | H | OH |
| **XXII-50-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | Bz | H | F | H | OH |
| **XXII-50-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | H | F | H | OH |
| **XXII-50-8** | p-I-Ph | * | H | * | Bz | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



**XXIII**

Table XXIII-1.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-1-1** | $CH_3$ | H | H | H | $CH_3$ | H | F | F | OH |
| **XXIII-1-2** | $CH_3$ | H | H | $CH_3$ | $CH_3$ | H | F | F | OH |
| **XXIII-1-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $CH_3$ | H | F | F | OH |
| **XXIII-1-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | F | F | OH |
| **XXIII-1-5** | $CH_3$ | H | H | $CH_2Ph$ | $CH_3$ | H | F | F | OH |
| **XXIII-1-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | F | F | OH |
| **XXIII-1-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | F | F | OH |
| **XXIII-1-8** | $CH_3$ | * | H | * | $CH_3$ | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIII-2.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-2-1** | Et | H | H | H | $CH_3$ | H | F | F | OH |
| **XXIII-2-2** | Et | H | H | $CH_3$ | $CH_3$ | H | F | F | OH |
| **XXIII-2-3** | Et | H | H | $CH(CH_3)_2$ | $CH_3$ | H | F | F | OH |
| **XXIII-2-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | F | F | OH |
| **XXIII-2-5** | Et | H | H | $CH_2Ph$ | $CH_3$ | H | F | F | OH |
| **XXIII-2-6** | Et | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | F | F | OH |
| **XXIII-2-7** | Et | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | F | F | OH |
| **XXIII-2-8** | Et | * | H | * | $CH_3$ | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIII-3.



Gilead Exhibit 2024
PGR2023-00046 - Page 00476

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-3-1** | $^i$Pr | H | H | H | $CH_3$ | H | F | F | OH |
| **XXIII-3-2** | $^i$Pr | H | H | $CH_3$ | $CH_3$ | H | F | F | OH |
| **XXIII-3-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $CH_3$ | H | F | F | OH |
| **XXIII-3-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | F | F | OH |
| **XXIII-3-5** | $^i$Pr | H | H | $CH_2Ph$ | $CH_3$ | H | F | F | OH |
| **XXIII-3-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | F | F | OH |
| **XXIII-3-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | F | F | OH |
| **XXIII-3-8** | $^i$Pr | * | H | * | $CH_3$ | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIII-4.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-4-1** | $^t$Bu | H | H | H | $CH_3$ | H | F | F | OH |
| **XXIII-4-2** | $^t$Bu | H | H | $CH_3$ | $CH_3$ | H | F | F | OH |
| **XXIII-4-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $CH_3$ | H | F | F | OH |
| **XXIII-4-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | F | F | OH |
| **XXIII-4-5** | $^t$Bu | H | H | $CH_2Ph$ | $CH_3$ | H | F | F | OH |
| **XXIII-4-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | F | F | OH |
| **XXIII-4-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | F | F | OH |
| **XXIII-4-8** | $^t$Bu | * | H | * | $CH_3$ | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIII-5.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-5-1** | Ph | H | H | H | $CH_3$ | H | F | F | OH |
| **XXIII-5-2** | Ph | H | H | $CH_3$ | $CH_3$ | H | F | F | OH |
| **XXIII-5-3** | Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | F | F | OH |
| **XXIII-5-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | F | F | OH |
| **XXIII-5-5** | Ph | H | H | $CH_2Ph$ | $CH_3$ | H | F | F | OH |
| **XXIII-5-6** | Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | F | F | OH |
| **XXIII-5-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | F | F | OH |
| **XXIII-5-8** | Ph | * | H | * | $CH_3$ | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00477

Table XXIII-6.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-6-1** | p-Me-Ph | H | H | H | $CH_3$ | H | F | F | OH |
| **XXIII-6-2** | p-Me-Ph | H | H | $CH_3$ | $CH_3$ | H | F | F | OH |
| **XXIII-6-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | F | F | OH |
| **XXIII-6-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | F | F | OH |
| **XXIII-6-5** | p-Me-Ph | H | H | $CH_2Ph$ | $CH_3$ | H | F | F | OH |
| **XXIII-6-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | F | F | OH |
| **XXIII-6-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | F | F | OH |
| **XXIII-6-8** | p-Me-Ph | * | H | * | $CH_3$ | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIII-7.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-7-1** | p-F-Ph | H | H | H | $CH_3$ | H | F | F | OH |
| **XXIII-7-2** | p-F-Ph | H | H | $CH_3$ | $CH_3$ | H | F | F | OH |
| **XXIII-7-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | F | F | OH |
| **XXIII-7-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | F | F | OH |
| **XXIII-7-6** | p-F-Ph | H | H | $CH_2Ph$ | $CH_3$ | H | F | F | OH |
| **XXIII-7-7** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | F | F | OH |
| **XXIII-7-8** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | F | F | OH |
| **XXIII-7-20** | p-F-Ph | * | H | * | $CH_3$ | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIII-8.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-8-1** | p-Cl-Ph | H | H | H | $CH_3$ | H | F | F | OH |
| **XXIII-8-2** | p-Cl-Ph | H | H | $CH_3$ | $CH_3$ | H | F | F | OH |
| **XXIII-8-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | F | F | OH |
| **XXIII-8-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | F | F | OH |
| **XXIII-8-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $CH_3$ | H | F | F | OH |
| **XXIII-8-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | F | F | OH |
| **XXIII-8-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | F | F | OH |
| **XXIII-8-8** | p-Cl-Ph | * | H | * | $CH_3$ | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00478

Table XXIII-9.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-9-1** | p-Br-Ph | H | H | H | $CH_3$ | H | F | F | OH |
| **XXIII-9-2** | p-Br-Ph | H | H | $CH_3$ | $CH_3$ | H | F | F | OH |
| **XXIII-9-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | F | F | OH |
| **XXIII-9-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | F | F | OH |
| **XXIII-9-6** | p-Br-Ph | H | H | $CH_2Ph$ | $CH_3$ | H | F | F | OH |
| **XXIII-9-7** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | F | F | OH |
| **XXIII-9-8** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | F | F | OH |
| **XXIII-9-20** | p-Br-Ph | * | H | * | $CH_3$ | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIII-10.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-10-1** | p-I-Ph | H | H | H | $CH_3$ | H | F | F | OH |
| **XXIII-10-2** | p-I-Ph | H | H | $CH_3$ | $CH_3$ | H | F | F | OH |
| **XXIII-10-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | F | F | OH |
| **XXIII-10-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | F | F | OH |
| **XXIII-10-5** | p-I-Ph | H | H | $CH_2Ph$ | $CH_3$ | H | F | F | OH |
| **XXIII-10-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | F | F | OH |
| **XXIII-10-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | F | F | OH |
| **XXIII-10-8** | p-I-Ph | * | H | * | $CH_3$ | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIII-11.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-11-1** | $CH_3$ | H | H | H | Et | H | F | F | OH |
| **XXIII-11-2** | $CH_3$ | H | H | $CH_3$ | Et | H | F | F | OH |
| **XXIII-11-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | Et | H | F | F | OH |
| **XXIII-11-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | Et | H | F | F | OH |
| **XXIII-11-5** | $CH_3$ | H | H | $CH_2Ph$ | Et | H | F | F | OH |
| **XXIII-11-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | Et | H | F | F | OH |
| **XXIII-11-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | Et | H | F | F | OH |
| **XXIII-11-8** | $CH_3$ | * | H | * | Et | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00479

Table XXIII-12.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-12-1** | Et | H | H | H | Et | H | F | F | OH |
| **XXIII-12-2** | Et | H | H | $CH_3$ | Et | H | F | F | OH |
| **XXIII-12-3** | Et | H | H | $CH(CH_3)_2$ | Et | H | F | F | OH |
| **XXIII-12-4** | Et | H | H | $CH_2CH(CH_3)_2$ | Et | H | F | F | OH |
| **XXIII-12-5** | Et | H | H | $CH_2Ph$ | Et | H | F | F | OH |
| **XXIII-12-6** | Et | H | H | $CH_2$-indol-3-yl | Et | H | F | F | OH |
| **XXIII-12-7** | Et | H | H | $CH_2CH_2SCH_3$ | Et | H | F | F | OH |
| **XXIII-12-8** | Et | * | H | * | Et | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIII-13.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-13-1** | $^i$Pr | H | H | H | Et | H | F | F | OH |
| **XXIII-13-2** | $^i$Pr | H | H | $CH_3$ | Et | H | F | F | OH |
| **XXIII-13-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | Et | H | F | F | OH |
| **XXIII-13-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | Et | H | F | F | OH |
| **XXIII-13-5** | $^i$Pr | H | H | $CH_2Ph$ | Et | H | F | F | OH |
| **XXIII-13-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | Et | H | F | F | OH |
| **XXIII-13-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | Et | H | F | F | OH |
| **XXIII-13-8** | $^i$Pr | * | H | * | Et | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIII-14.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-14-1** | $^t$Bu | H | H | H | Et | H | F | F | OH |
| **XXIII-14-2** | $^t$Bu | H | H | $CH_3$ | Et | H | F | F | OH |
| **XXIII-14-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | Et | H | F | F | OH |
| **XXIII-14-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | Et | H | F | F | OH |
| **XXIII-14-5** | $^t$Bu | H | H | $CH_2Ph$ | Et | H | F | F | OH |
| **XXIII-14-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | Et | H | F | F | OH |
| **XXIII-14-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | Et | H | F | F | OH |
| **XXIII-14-8** | $^t$Bu | * | H | * | Et | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00480

Table XXIII-15.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-15-1** | Ph | H | H | H | Et | H | F | F | OH |
| **XXIII-15-2** | Ph | H | H | $CH_3$ | Et | H | F | F | OH |
| **XXIII-15-3** | Ph | H | H | $CH(CH_3)_2$ | Et | H | F | F | OH |
| **XXIII-15-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | F | F | OH |
| **XXIII-15-5** | Ph | H | H | $CH_2Ph$ | Et | H | F | F | OH |
| **XXIII-15-6** | Ph | H | H | $CH_2$-indol-3-yl | Et | H | F | F | OH |
| **XXIII-15-7** | Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | F | F | OH |
| **XXIII-15-8** | Ph | * | H | * | Et | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIII-16.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-16-1** | p-Me-Ph | H | H | H | Et | H | F | F | OH |
| **XXIII-16-2** | p-Me-Ph | H | H | $CH_3$ | Et | H | F | F | OH |
| **XXIII-16-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | Et | H | F | F | OH |
| **XXIII-16-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | F | F | OH |
| **XXIII-16-5** | p-Me-Ph | H | H | $CH_2Ph$ | Et | H | F | F | OH |
| **XXIII-16-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | Et | H | F | F | OH |
| **XXIII-16-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | F | F | OH |
| **XXIII-16-8** | p-Me-Ph | * | H | * | Et | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIII-17.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-17-1** | p-F-Ph | H | H | H | Et | H | F | F | OH |
| **XXIII-17-2** | p-F-Ph | H | H | $CH_3$ | Et | H | F | F | OH |
| **XXIII-17-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | Et | H | F | F | OH |
| **XXIII-17-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | F | F | OH |
| **XXIII-17-5** | p-F-Ph | H | H | $CH_2Ph$ | Et | H | F | F | OH |
| **XXIII-17-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | Et | H | F | F | OH |
| **XXIII-17-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | F | F | OH |
| **XXIII-17-8** | p-F-Ph | * | H | * | Et | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00481

Table XXIII-18.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-18-1** | p-Cl-Ph | H | H | H | Et | H | F | F | OH |
| **XXIII-18-2** | p-Cl-Ph | H | H | $CH_3$ | Et | H | F | F | OH |
| **XXIII-18-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | Et | H | F | F | OH |
| **XXIII-18-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | F | F | OH |
| **XXIII-18-5** | p-Cl-Ph | H | H | $CH_2Ph$ | Et | H | F | F | OH |
| **XXIII-18-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | Et | H | F | F | OH |
| **XXIII-18-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | F | F | OH |
| **XXIII-18-8** | p-Cl-Ph | * | H | * | Et | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIII-19.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-19-1** | p-Br-Ph | H | H | H | Et | H | F | F | OH |
| **XXIII-19-2** | p-Br-Ph | H | H | $CH_3$ | Et | H | F | F | OH |
| **XXIII-19-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | Et | H | F | F | OH |
| **XXIII-19-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | F | F | OH |
| **XXIII-19-5** | p-Br-Ph | H | H | $CH_2Ph$ | Et | H | F | F | OH |
| **XXIII-19-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | Et | H | F | F | OH |
| **XXIII-19-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | F | F | OH |
| **XXIII-19-8** | p-Br-Ph | * | H | * | Et | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIII-20.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-20-1** | p-I-Ph | H | H | H | Et | H | F | F | OH |
| **XXIII-20-2** | p-I-Ph | H | H | $CH_3$ | Et | H | F | F | OH |
| **XXIII-20-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | Et | H | F | F | OH |
| **XXIII-20-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | F | F | OH |
| **XXIII-20-5** | p-I-Ph | H | H | $CH_2Ph$ | Et | H | F | F | OH |
| **XXIII-20-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | Et | H | F | F | OH |
| **XXIII-20-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | F | F | OH |
| **XXIII-20-8** | p-I-Ph | * | H | * | Et | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIII-21.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-21-1** | $CH_3$ | H | H | H | $^i$Pr | H | F | F | OH |
| **XXIII-21-2** | $CH_3$ | H | H | $CH_3$ | $^i$Pr | H | F | F | OH |
| **XXIII-21-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $^i$Pr | H | F | F | OH |
| **XXIII-21-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | F | F | OH |
| **XXIII-21-5** | $CH_3$ | H | H | $CH_2Ph$ | $^i$Pr | H | F | F | OH |
| **XXIII-21-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | F | F | OH |
| **XXIII-21-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | F | F | OH |
| **XXIII-21-8** | $CH_3$ | * | H | * | $^i$Pr | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIII-22.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-22-1** | Et | H | H | H | $^i$Pr | H | F | F | OH |
| **XXIII-22-2** | Et | H | H | $CH_3$ | $^i$Pr | H | F | F | OH |
| **XXIII-22-3** | Et | H | H | $CH(CH_3)_2$ | $^i$Pr | H | F | F | OH |
| **XXIII-22-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | F | F | OH |
| **XXIII-22-5** | Et | H | H | $CH_2Ph$ | $^i$Pr | H | F | F | OH |
| **XXIII-22-6** | Et | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | F | F | OH |
| **XXIII-22-7** | Et | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | F | F | OH |
| **XXIII-22-8** | Et | * | H | * | $^i$Pr | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIII-23.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-23-1** | $^i$Pr | H | H | H | $^i$Pr | H | F | F | OH |
| **XXIII-23-2** | $^i$Pr | H | H | $CH_3$ | $^i$Pr | H | F | F | OH |
| **XXIII-23-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $^i$Pr | H | F | F | OH |
| **XXIII-23-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | F | F | OH |
| **XXIII-23-5** | $^i$Pr | H | H | $CH_2Ph$ | $^i$Pr | H | F | F | OH |
| **XXIII-23-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | F | F | OH |
| **XXIII-23-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | F | F | OH |
| **XXIII-23-8** | $^i$Pr | * | H | * | $^i$Pr | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00483

Table XXIII-24.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-24-1** | $^t$Bu | H | H | H | $^i$Pr | H | F | F | OH |
| **XXIII-24-2** | $^t$Bu | H | H | $CH_3$ | $^i$Pr | H | F | F | OH |
| **XXIII-24-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $^i$Pr | H | F | F | OH |
| **XXIII-24-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | F | F | OH |
| **XXIII-24-5** | $^t$Bu | H | H | $CH_2Ph$ | $^i$Pr | H | F | F | OH |
| **XXIII-24-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | F | F | OH |
| **XXIII-24-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | F | F | OH |
| **XXIII-24-8** | $^t$Bu | * | H | * | $^i$Pr | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIII-25.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-25-1** | Ph | H | H | H | $^i$Pr | H | F | F | OH |
| **XXIII-25-2** | Ph | H | H | $CH_3$ | $^i$Pr | H | F | F | OH |
| **XXIII-25-3** | Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | F | F | OH |
| **XXIII-25-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | F | F | OH |
| **XXIII-25-5** | Ph | H | H | $CH_2Ph$ | $^i$Pr | H | F | F | OH |
| **XXIII-25-6** | Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | F | F | OH |
| **XXIII-25-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | F | F | OH |
| **XXIII-25-8** | Ph | * | H | * | $^i$Pr | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIII-26.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-26-1** | p-Me-Ph | H | H | H | $^i$Pr | H | F | F | OH |
| **XXIII-26-2** | p-Me-Ph | H | H | $CH_3$ | $^i$Pr | H | F | F | OH |
| **XXIII-26-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | F | F | OH |
| **XXIII-26-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | F | F | OH |
| **XXIII-26-5** | p-Me-Ph | H | H | $CH_2Ph$ | $^i$Pr | H | F | F | OH |
| **XXIII-26-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | F | F | OH |
| **XXIII-26-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | F | F | OH |
| **XXIII-26-8** | p-Me-Ph | * | H | * | $^i$Pr | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00484

Table XXIII-27.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-27-1** | p-F-Ph | H | H | H | $^i$Pr | H | F | F | OH |
| **XXIII-27-2** | p-F-Ph | H | H | $CH_3$ | $^i$Pr | H | F | F | OH |
| **XXIII-27-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | F | F | OH |
| **XXIII-27-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | F | F | OH |
| **XXIII-27-5** | p-F-Ph | H | H | $CH_2Ph$ | $^i$Pr | H | F | F | OH |
| **XXIII-27-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | F | F | OH |
| **XXIII-27-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | F | F | OH |
| **XXIII-27-8** | p-F-Ph | * | H | * | $^i$Pr | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIII-28.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-28-1** | p-Cl-Ph | H | H | H | $^i$Pr | H | F | F | OH |
| **XXIII-28-2** | p-Cl-Ph | H | H | $CH_3$ | $^i$Pr | H | F | F | OH |
| **XXIII-28-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | F | F | OH |
| **XXIII-28-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | F | F | OH |
| **XXIII-28-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $^i$Pr | H | F | F | OH |
| **XXIII-28-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | F | F | OH |
| **XXIII-28-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | F | F | OH |
| **XXIII-28-8** | p-Cl-Ph | * | H | * | $^i$Pr | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIII-29.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-29-1** | p-Br-Ph | H | H | H | $^i$Pr | H | F | F | OH |
| **XXIII-29-2** | p-Br-Ph | H | H | $CH_3$ | $^i$Pr | H | F | F | OH |
| **XXIII-29-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | F | F | OH |
| **XXIII-29-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | F | F | OH |
| **XXIII-29-5** | p-Br-Ph | H | H | $CH_2Ph$ | $^i$Pr | H | F | F | OH |
| **XXIII-29-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | F | F | OH |
| **XXIII-29-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | F | F | OH |
| **XXIII-29-8** | p-Br-Ph | * | H | * | $^i$Pr | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00485

Table XXIII-30.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-30-1** | p-I-Ph | H | H | H | $^i$Pr | H | F | F | OH |
| **XXIII-30-2** | p-I-Ph | H | H | $CH_3$ | $^i$Pr | H | F | F | OH |
| **XXIII-30-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | F | F | OH |
| **XXIII-30-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | F | F | OH |
| **XXIII-30-5** | p-I-Ph | H | H | $CH_2Ph$ | $^i$Pr | H | F | F | OH |
| **XXIII-30-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | F | F | OH |
| **XXIII-30-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | F | F | OH |
| **XXIII-30-8** | p-I-Ph | * | H | * | $^i$Pr | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIII-31.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-31-1** | $CH_3$ | H | H | H | $^n$Bu | H | F | F | OH |
| **XXIII-31-2** | $CH_3$ | H | H | $CH_3$ | $^n$Bu | H | F | F | OH |
| **XXIII-31-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $^n$Bu | H | F | F | OH |
| **XXIII-31-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | F | F | OH |
| **XXIII-31-5** | $CH_3$ | H | H | $CH_2Ph$ | $^n$Bu | H | F | F | OH |
| **XXIII-31-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | F | F | OH |
| **XXIII-31-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | F | F | OH |
| **XXIII-31-8** | $CH_3$ | * | H | * | $^n$Bu | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIII-32.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-32-1** | Et | H | H | H | $^n$Bu | H | F | F | OH |
| **XXIII-32-2** | Et | H | H | $CH_3$ | $^n$Bu | H | F | F | OH |
| **XXIII-32-3** | Et | H | H | $CH(CH_3)_2$ | $^n$Bu | H | F | F | OH |
| **XXIII-32-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | F | F | OH |
| **XXIII-32-5** | Et | H | H | $CH_2Ph$ | $^n$Bu | H | F | F | OH |
| **XXIII-32-6** | Et | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | F | F | OH |
| **XXIII-32-7** | Et | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | F | F | OH |
| **XXIII-32-8** | Et | * | H | * | $^n$Bu | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00486

Table XXIII-33.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-33-1** | $^i$Pr | H | H | H | $^n$Bu | H | F | F | OH |
| **XXIII-33-2** | $^i$Pr | H | H | $CH_3$ | $^n$Bu | H | F | F | OH |
| **XXIII-33-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $^n$Bu | H | F | F | OH |
| **XXIII-33-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | F | F | OH |
| **XXIII-33-5** | $^i$Pr | H | H | $CH_2Ph$ | $^n$Bu | H | F | F | OH |
| **XXIII-33-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | F | F | OH |
| **XXIII-33-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | F | F | OH |
| **XXIII-33-8** | $^i$Pr | * | H | * | $^n$Bu | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIII-34.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-34-1** | $^t$Bu | H | H | H | $^n$Bu | H | F | F | OH |
| **XXIII-34-2** | $^t$Bu | H | H | $CH_3$ | $^n$Bu | H | F | F | OH |
| **XXIII-34-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $^n$Bu | H | F | F | OH |
| **XXIII-34-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | F | F | OH |
| **XXIII-34-5** | $^t$Bu | H | H | $CH_2Ph$ | $^n$Bu | H | F | F | OH |
| **XXIII-34-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | F | F | OH |
| **XXIII-34-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | F | F | OH |
| **XXIII-34-8** | $^t$Bu | * | H | * | $^n$Bu | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIII-35.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-35-1** | Ph | H | H | H | $^n$Bu | H | F | F | OH |
| **XXIII-35-2** | Ph | H | H | $CH_3$ | $^n$Bu | H | F | F | OH |
| **XXIII-35-3** | Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | H | F | F | OH |
| **XXIII-35-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | F | F | OH |
| **XXIII-35-5** | Ph | H | H | $CH_2Ph$ | $^n$Bu | H | F | F | OH |
| **XXIII-35-6** | Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | F | F | OH |
| **XXIII-35-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | F | F | OH |
| **XXIII-35-8** | Ph | * | H | * | $^n$Bu | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00487

Table XXIII-36.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-36-1** | p-Me-Ph | H | H | H | $^n$Bu | H | F | F | OH |
| **XXIII-36-2** | p-Me-Ph | H | H | $CH_3$ | $^n$Bu | H | F | F | OH |
| **XXIII-36-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | H | F | F | OH |
| **XXIII-36-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | F | F | OH |
| **XXIII-36-5** | p-Me-Ph | H | H | $CH_2Ph$ | $^n$Bu | H | F | F | OH |
| **XXIII-36-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | F | F | OH |
| **XXIII-36-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | F | F | OH |
| **XXIII-36-8** | p-Me-Ph | * | H | * | $^n$Bu | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIII-37.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-37-1** | p-F-Ph | H | H | H | $^n$Bu | H | F | F | OH |
| **XXIII-37-2** | p-F-Ph | H | H | $CH_3$ | $^n$Bu | H | F | F | OH |
| **XXIII-37-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | H | F | F | OH |
| **XXIII-37-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | F | F | OH |
| **XXIII-37-5** | p-F-Ph | H | H | $CH_2Ph$ | $^n$Bu | H | F | F | OH |
| **XXIII-37-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | F | F | OH |
| **XXIII-37-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | F | F | OH |
| **XXIII-37-8** | p-F-Ph | * | H | * | $^n$Bu | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIII-38.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-38-1** | p-Cl-Ph | H | H | H | $^n$Bu | H | F | F | OH |
| **XXIII-38-2** | p-Cl-Ph | H | H | $CH_3$ | $^n$Bu | H | F | F | OH |
| **XXIII-38-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | H | F | F | OH |
| **XXIII-38-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | F | F | OH |
| **XXIII-38-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $^n$Bu | H | F | F | OH |
| **XXIII-38-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | F | F | OH |
| **XXIII-38-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | F | F | OH |
| **XXIII-38-8** | p-Cl-Ph | * | H | * | $^n$Bu | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIII-39.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-39-1** | p-Br-Ph | H | H | H | $^n$Bu | H | F | F | OH |
| **XXIII-39-2** | p-Br-Ph | H | H | $CH_3$ | $^n$Bu | H | F | F | OH |
| **XXIII-39-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | H | F | F | OH |
| **XXIII-39-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | F | F | OH |
| **XXIII-39-5** | p-Br-Ph | H | H | $CH_2Ph$ | $^n$Bu | H | F | F | OH |
| **XXIII-39-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | F | F | OH |
| **XXIII-39-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | F | F | OH |
| **XXIII-39-8** | p-Br-Ph | * | H | * | $^n$Bu | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIII-40.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-40-1** | p-I-Ph | H | H | H | $^n$Bu | H | F | F | OH |
| **XXIII-40-2** | p-I-Ph | H | H | $CH_3$ | $^n$Bu | H | F | F | OH |
| **XXIII-40-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | H | F | F | OH |
| **XXIII-40-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | F | F | OH |
| **XXIII-40-5** | p-I-Ph | H | H | $CH_2Ph$ | $^n$Bu | H | F | F | OH |
| **XXIII-40-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | F | F | OH |
| **XXIII-40-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | F | F | OH |
| **XXIII-40-8** | p-I-Ph | * | H | * | $^n$Bu | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIII-41.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-41-1** | $CH_3$ | H | H | H | Bz | H | F | F | OH |
| **XXIII-41-2** | $CH_3$ | H | H | $CH_3$ | Bz | H | F | F | OH |
| **XXIII-41-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | Bz | H | F | F | OH |
| **XXIII-41-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | Bz | H | F | F | OH |
| **XXIII-41-5** | $CH_3$ | H | H | $CH_2Ph$ | Bz | H | F | F | OH |
| **XXIII-41-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | Bz | H | F | F | OH |
| **XXIII-41-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | Bz | H | F | F | OH |
| **XXIII-41-8** | $CH_3$ | * | H | * | Bz | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIII-42.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-42-1** | Et | H | H | H | Bz | H | F | F | OH |
| **XXIII-42-2** | Et | H | H | $CH_3$ | Bz | H | F | F | OH |
| **XXIII-42-3** | Et | H | H | $CH(CH_3)_2$ | Bz | H | F | F | OH |
| **XXIII-42-4** | Et | H | H | $CH_2CH(CH_3)_2$ | Bz | H | F | F | OH |
| **XXIII-42-5** | Et | H | H | $CH_2Ph$ | Bz | H | F | F | OH |
| **XXIII-42-6** | Et | H | H | $CH_2$-indol-3-yl | Bz | H | F | F | OH |
| **XXIII-42-7** | Et | H | H | $CH_2CH_2SCH_3$ | Bz | H | F | F | OH |
| **XXIII-42-8** | Et | * | H | * | Bz | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIII-43.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-43-1** | $^i$Pr | H | H | H | Bz | H | F | F | OH |
| **XXIII-43-2** | $^i$Pr | H | H | $CH_3$ | Bz | H | F | F | OH |
| **XXIII-43-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | Bz | H | F | F | OH |
| **XXIII-43-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | Bz | H | F | F | OH |
| **XXIII-43-5** | $^i$Pr | H | H | $CH_2Ph$ | Bz | H | F | F | OH |
| **XXIII-43-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | Bz | H | F | F | OH |
| **XXIII-43-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | Bz | H | F | F | OH |
| **XXIII-43-8** | $^i$Pr | * | H | * | Bz | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIII-44.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-44-1** | $^t$Bu | H | H | H | Bz | H | F | F | OH |
| **XXIII-44-2** | $^t$Bu | H | H | $CH_3$ | Bz | H | F | F | OH |
| **XXIII-44-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | Bz | H | F | F | OH |
| **XXIII-44-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | Bz | H | F | F | OH |
| **XXIII-44-5** | $^t$Bu | H | H | $CH_2Ph$ | Bz | H | F | F | OH |
| **XXIII-44-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | Bz | H | F | F | OH |
| **XXIII-44-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | Bz | H | F | F | OH |
| **XXIII-44-8** | $^t$Bu | * | H | * | Bz | H | F | F | OH |



Gilead Exhibit 2024
PGR2023-00046 - Page 00490

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIII-45.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-45-1** | Ph | H | H | H | Bz | H | F | F | OH |
| **XXIII-45-2** | Ph | H | H | $CH_3$ | Bz | H | F | F | OH |
| **XXIII-45-3** | Ph | H | H | $CH(CH_3)_2$ | Bz | H | F | F | OH |
| **XXIII-45-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | H | F | F | OH |
| **XXIII-45-5** | Ph | H | H | $CH_2Ph$ | Bz | H | F | F | OH |
| **XXIII-45-6** | Ph | H | H | $CH_2$-indol-3-yl | Bz | H | F | F | OH |
| **XXIII-45-7** | Ph | H | H | $CH_2CH_2SCH_3$ | Bz | H | F | F | OH |
| **XXIII-45-8** | Ph | * | H | * | Bz | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIII-46.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-46-1** | p-Me-Ph | H | H | H | Bz | H | F | F | OH |
| **XXIII-46-2** | p-Me-Ph | H | H | $CH_3$ | Bz | H | F | F | OH |
| **XXIII-46-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | Bz | H | F | F | OH |
| **XXIII-46-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | H | F | F | OH |
| **XXIII-46-5** | p-Me-Ph | H | H | $CH_2Ph$ | Bz | H | F | F | OH |
| **XXIII-46-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | Bz | H | F | F | OH |
| **XXIII-46-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | H | F | F | OH |
| **XXIII-46-8** | p-Me-Ph | * | H | * | Bz | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIII-47.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-47-1** | p-F-Ph | H | H | H | Bz | H | F | F | OH |
| **XXIII-47-2** | p-F-Ph | H | H | $CH_3$ | Bz | H | F | F | OH |
| **XXIII-47-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | Bz | H | F | F | OH |
| **XXIII-47-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | H | F | F | OH |
| **XXIII-47-5** | p-F-Ph | H | H | $CH_2Ph$ | Bz | H | F | F | OH |
| **XXIII-47-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | Bz | H | F | F | OH |
| **XXIII-47-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | H | F | F | OH |



Gilead Exhibit 2024
PGR2023-00046 - Page 00491

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-47-8** | p-F-Ph | * | H | * | Bz | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIII-48.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-48-1** | p-Cl-Ph | H | H | H | Bz | H | F | F | OH |
| **XXIII-48-2** | p-Cl-Ph | H | H | $CH_3$ | Bz | H | F | F | OH |
| **XXIII-48-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | Bz | H | F | F | OH |
| **XXIII-48-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | H | F | F | OH |
| **XXIII-48-5** | p-Cl-Ph | H | H | $CH_2Ph$ | Bz | H | F | F | OH |
| **XXIII-48-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | Bz | H | F | F | OH |
| **XXIII-48-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | H | F | F | OH |
| **XXIII-48-8** | p-Cl-Ph | * | H | * | Bz | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIII-49.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-49-1** | p-Br-Ph | H | H | H | Bz | H | F | F | OH |
| **XXIII-49-2** | p-Br-Ph | H | H | $CH_3$ | Bz | H | F | F | OH |
| **XXIII-49-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | Bz | H | F | F | OH |
| **XXIII-49-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | H | F | F | OH |
| **XXIII-49-5** | p-Br-Ph | H | H | $CH_2Ph$ | Bz | H | F | F | OH |
| **XXIII-49-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | Bz | H | F | F | OH |
| **XXIII-49-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | H | F | F | OH |
| **XXIII-49-8** | p-Br-Ph | * | H | * | Bz | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIII-50.

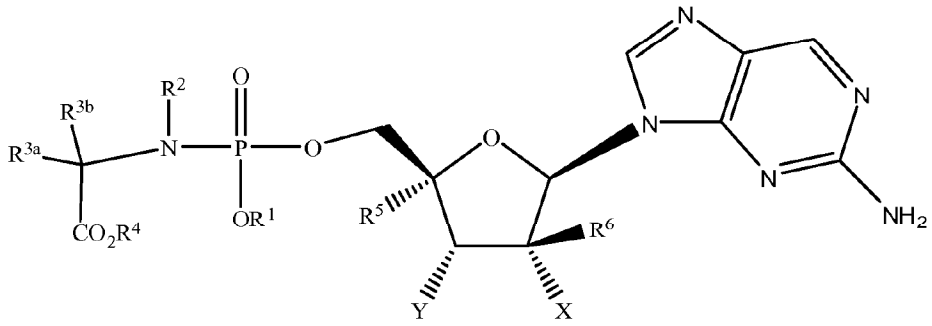
| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-50-1** | p-I-Ph | H | H | H | Bz | H | F | F | OH |
| **XXIII-50-2** | p-I-Ph | H | H | $CH_3$ | Bz | H | F | F | OH |
| **XXIII-50-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | Bz | H | F | F | OH |
| **XXIII-50-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | H | F | F | OH |
| **XXIII-50-5** | p-I-Ph | H | H | $CH_2Ph$ | Bz | H | F | F | OH |



Gilead Exhibit 2024
PGR2023-00046 - Page 00492

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIII-50-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | Bz | H | F | F | OH |
| **XXIII-50-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | H | F | F | OH |
| **XXIII-50-8** | p-I-Ph | * | H | * | Bz | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



**XXIV**

Table XXIV-1.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-1-1** | $CH_3$ | H | H | H | $CH_3$ | H | H | F | OH |
| **XXIV-1-2** | $CH_3$ | H | H | $CH_3$ | $CH_3$ | H | H | F | OH |
| **XXIV-1-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $CH_3$ | H | H | F | OH |
| **XXIV-1-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | H | F | OH |
| **XXIV-1-5** | $CH_3$ | H | H | $CH_2Ph$ | $CH_3$ | H | H | F | OH |
| **XXIV-1-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | H | F | OH |
| **XXIV-1-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | H | F | OH |
| **XXIV-1-8** | $CH_3$ | * | H | * | $CH_3$ | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIV-2.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-2-1** | Et | H | H | H | $CH_3$ | H | H | F | OH |
| **XXIV-2-2** | Et | H | H | $CH_3$ | $CH_3$ | H | H | F | OH |
| **XXIV-2-3** | Et | H | H | $CH(CH_3)_2$ | $CH_3$ | H | H | F | OH |
| **XXIV-2-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | H | F | OH |



Gilead Exhibit 2024
PGR2023-00046 - Page 00493

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-2-5** | Et | H | H | $CH_2Ph$ | $CH_3$ | H | H | F | OH |
| **XXIV-2-6** | Et | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | H | F | OH |
| **XXIV-2-7** | Et | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | H | F | OH |
| **XXIV-2-8** | Et | * | H | * | $CH_3$ | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIV-3.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-3-1** | $^i$Pr | H | H | H | $CH_3$ | H | H | F | OH |
| **XXIV-3-2** | $^i$Pr | H | H | $CH_3$ | $CH_3$ | H | H | F | OH |
| **XXIV-3-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $CH_3$ | H | H | F | OH |
| **XXIV-3-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | H | F | OH |
| **XXIV-3-5** | $^i$Pr | H | H | $CH_2Ph$ | $CH_3$ | H | H | F | OH |
| **XXIV-3-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | H | F | OH |
| **XXIV-3-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | H | F | OH |
| **XXIV-3-8** | $^i$Pr | * | H | * | $CH_3$ | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIV-4.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-4-1** | $^t$Bu | H | H | H | $CH_3$ | H | H | F | OH |
| **XXIV-4-2** | $^t$Bu | H | H | $CH_3$ | $CH_3$ | H | H | F | OH |
| **XXIV-4-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $CH_3$ | H | H | F | OH |
| **XXIV-4-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | H | F | OH |
| **XXIV-4-5** | $^t$Bu | H | H | $CH_2Ph$ | $CH_3$ | H | H | F | OH |
| **XXIV-4-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | H | F | OH |
| **XXIV-4-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | H | F | OH |
| **XXIV-4-8** | $^t$Bu | * | H | * | $CH_3$ | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIV-5.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-5-1** | Ph | H | H | H | $CH_3$ | H | H | F | OH |
| **XXIV-5-2** | Ph | H | H | $CH_3$ | $CH_3$ | H | H | F | OH |



Gilead Exhibit 2024
PGR2023-00046 - Page 00494

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-5-3** | Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | H | F | OH |
| **XXIV-5-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | H | F | OH |
| **XXIV-5-5** | Ph | H | H | $CH_2Ph$ | $CH_3$ | H | H | F | OH |
| **XXIV-5-6** | Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | H | F | OH |
| **XXIV-5-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | H | F | OH |
| **XXIV-5-8** | Ph | * | H | * | $CH_3$ | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIV-6.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-6-1** | p-Me-Ph | H | H | H | $CH_3$ | H | H | F | OH |
| **XXIV-6-2** | p-Me-Ph | H | H | $CH_3$ | $CH_3$ | H | H | F | OH |
| **XXIV-6-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | H | F | OH |
| **XXIV-6-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | H | F | OH |
| **XXIV-6-5** | p-Me-Ph | H | H | $CH_2Ph$ | $CH_3$ | H | H | F | OH |
| **XXIV-6-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | H | F | OH |
| **XXIV-6-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | H | F | OH |
| **XXIV-6-8** | p-Me-Ph | * | H | * | $CH_3$ | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIV-7.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-7-1** | p-F-Ph | H | H | H | $CH_3$ | H | H | F | OH |
| **XXIV-7-2** | p-F-Ph | H | H | $CH_3$ | $CH_3$ | H | H | F | OH |
| **XXIV-7-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | H | F | OH |
| **XXIV-7-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | H | F | OH |
| **XXIV-7-6** | p-F-Ph | H | H | $CH_2Ph$ | $CH_3$ | H | H | F | OH |
| **XXIV-7-7** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | H | F | OH |
| **XXIV-7-8** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | H | F | OH |
| **XXIV-7-20** | p-F-Ph | * | H | * | $CH_3$ | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIV-8.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-8-1** | p-Cl-Ph | H | H | H | $CH_3$ | H | H | F | OH |
| **XXIV-8-2** | p-Cl-Ph | H | H | $CH_3$ | $CH_3$ | H | H | F | OH |
| **XXIV-8-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | H | F | OH |
| **XXIV-8-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | H | F | OH |
| **XXIV-8-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $CH_3$ | H | H | F | OH |
| **XXIV-8-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | H | F | OH |
| **XXIV-8-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | H | F | OH |
| **XXIV-8-8** | p-Cl-Ph | * | H | * | $CH_3$ | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIV-9.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-9-1** | p-Br-Ph | H | H | H | $CH_3$ | H | H | F | OH |
| **XXIV-9-2** | p-Br-Ph | H | H | $CH_3$ | $CH_3$ | H | H | F | OH |
| **XXIV-9-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | H | F | OH |
| **XXIV-9-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | H | F | OH |
| **XXIV-9-6** | p-Br-Ph | H | H | $CH_2Ph$ | $CH_3$ | H | H | F | OH |
| **XXIV-9-7** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | H | F | OH |
| **XXIV-9-8** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | H | F | OH |
| **XXIV-9-20** | p-Br-Ph | * | H | * | $CH_3$ | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIV-10.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-10-1** | p-I-Ph | H | H | H | $CH_3$ | H | H | F | OH |
| **XXIV-10-2** | p-I-Ph | H | H | $CH_3$ | $CH_3$ | H | H | F | OH |
| **XXIV-10-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | H | F | OH |
| **XXIV-10-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | H | F | OH |
| **XXIV-10-5** | p-I-Ph | H | H | $CH_2Ph$ | $CH_3$ | H | H | F | OH |
| **XXIV-10-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | H | F | OH |
| **XXIV-10-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | H | F | OH |
| **XXIV-10-8** | p-I-Ph | * | H | * | $CH_3$ | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00496

Table XXIV-11.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-11-1** | $CH_3$ | H | H | H | Et | H | H | F | OH |
| **XXIV-11-2** | $CH_3$ | H | H | $CH_3$ | Et | H | H | F | OH |
| **XXIV-11-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | Et | H | H | F | OH |
| **XXIV-11-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | Et | H | H | F | OH |
| **XXIV-11-5** | $CH_3$ | H | H | $CH_2Ph$ | Et | H | H | F | OH |
| **XXIV-11-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | Et | H | H | F | OH |
| **XXIV-11-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | Et | H | H | F | OH |
| **XXIV-11-8** | $CH_3$ | * | H | * | Et | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIV-12.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-12-1** | Et | H | H | H | Et | H | H | F | OH |
| **XXIV-12-2** | Et | H | H | $CH_3$ | Et | H | H | F | OH |
| **XXIV-12-3** | Et | H | H | $CH(CH_3)_2$ | Et | H | H | F | OH |
| **XXIV-12-4** | Et | H | H | $CH_2CH(CH_3)_2$ | Et | H | H | F | OH |
| **XXIV-12-5** | Et | H | H | $CH_2Ph$ | Et | H | H | F | OH |
| **XXIV-12-6** | Et | H | H | $CH_2$-indol-3-yl | Et | H | H | F | OH |
| **XXIV-12-7** | Et | H | H | $CH_2CH_2SCH_3$ | Et | H | H | F | OH |
| **XXIV-12-8** | Et | * | H | * | Et | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIV-13.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-13-1** | $^i$Pr | H | H | H | Et | H | H | F | OH |
| **XXIV-13-2** | $^i$Pr | H | H | $CH_3$ | Et | H | H | F | OH |
| **XXIV-13-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | Et | H | H | F | OH |
| **XXIV-13-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | Et | H | H | F | OH |
| **XXIV-13-5** | $^i$Pr | H | H | $CH_2Ph$ | Et | H | H | F | OH |
| **XXIV-13-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | Et | H | H | F | OH |
| **XXIV-13-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | Et | H | H | F | OH |
| **XXIV-13-8** | $^i$Pr | * | H | * | Et | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00497

Table XXIV-14.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-14-1** | $^t$Bu | H | H | H | Et | H | H | F | OH |
| **XXIV-14-2** | $^t$Bu | H | H | $CH_3$ | Et | H | H | F | OH |
| **XXIV-14-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | Et | H | H | F | OH |
| **XXIV-14-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | Et | H | H | F | OH |
| **XXIV-14-5** | $^t$Bu | H | H | $CH_2Ph$ | Et | H | H | F | OH |
| **XXIV-14-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | Et | H | H | F | OH |
| **XXIV-14-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | Et | H | H | F | OH |
| **XXIV-14-8** | $^t$Bu | * | H | * | Et | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIV-15.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-15-1** | Ph | H | H | H | Et | H | H | F | OH |
| **XXIV-15-2** | Ph | H | H | $CH_3$ | Et | H | H | F | OH |
| **XXIV-15-3** | Ph | H | H | $CH(CH_3)_2$ | Et | H | H | F | OH |
| **XXIV-15-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | H | F | OH |
| **XXIV-15-5** | Ph | H | H | $CH_2Ph$ | Et | H | H | F | OH |
| **XXIV-15-6** | Ph | H | H | $CH_2$-indol-3-yl | Et | H | H | F | OH |
| **XXIV-15-7** | Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | H | F | OH |
| **XXIV-15-8** | Ph | * | H | * | Et | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIV-16.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-16-1** | p-Me-Ph | H | H | H | Et | H | H | F | OH |
| **XXIV-16-2** | p-Me-Ph | H | H | $CH_3$ | Et | H | H | F | OH |
| **XXIV-16-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | Et | H | H | F | OH |
| **XXIV-16-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | H | F | OH |
| **XXIV-16-5** | p-Me-Ph | H | H | $CH_2Ph$ | Et | H | H | F | OH |
| **XXIV-16-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | Et | H | H | F | OH |
| **XXIV-16-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | H | F | OH |
| **XXIV-16-8** | p-Me-Ph | * | H | * | Et | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIV-17.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-17-1** | p-F-Ph | H | H | H | Et | H | H | F | OH |
| **XXIV-17-2** | p-F-Ph | H | H | $CH_3$ | Et | H | H | F | OH |
| **XXIV-17-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | Et | H | H | F | OH |
| **XXIV-17-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | H | F | OH |
| **XXIV-17-5** | p-F-Ph | H | H | $CH_2Ph$ | Et | H | H | F | OH |
| **XXIV-17-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | Et | H | H | F | OH |
| **XXIV-17-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | H | F | OH |
| **XXIV-17-8** | p-F-Ph | * | H | * | Et | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIV-18.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-18-1** | p-Cl-Ph | H | H | H | Et | H | H | F | OH |
| **XXIV-18-2** | p-Cl-Ph | H | H | $CH_3$ | Et | H | H | F | OH |
| **XXIV-18-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | Et | H | H | F | OH |
| **XXIV-18-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | H | F | OH |
| **XXIV-18-5** | p-Cl-Ph | H | H | $CH_2Ph$ | Et | H | H | F | OH |
| **XXIV-18-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | Et | H | H | F | OH |
| **XXIV-18-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | H | F | OH |
| **XXIV-18-8** | p-Cl-Ph | * | H | * | Et | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIV-19.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-19-1** | p-Br-Ph | H | H | H | Et | H | H | F | OH |
| **XXIV-19-2** | p-Br-Ph | H | H | $CH_3$ | Et | H | H | F | OH |
| **XXIV-19-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | Et | H | H | F | OH |
| **XXIV-19-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | H | F | OH |
| **XXIV-19-5** | p-Br-Ph | H | H | $CH_2Ph$ | Et | H | H | F | OH |
| **XXIV-19-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | Et | H | H | F | OH |
| **XXIV-19-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | H | F | OH |
| **XXIV-19-8** | p-Br-Ph | * | H | * | Et | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00499

Table XXIV-20.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-20-1** | p-I-Ph | H | H | H | Et | H | H | F | OH |
| **XXIV-20-2** | p-I-Ph | H | H | $CH_3$ | Et | H | H | F | OH |
| **XXIV-20-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | Et | H | H | F | OH |
| **XXIV-20-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | H | F | OH |
| **XXIV-20-5** | p-I-Ph | H | H | $CH_2Ph$ | Et | H | H | F | OH |
| **XXIV-20-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | Et | H | H | F | OH |
| **XXIV-20-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | H | F | OH |
| **XXIV-20-8** | p-I-Ph | * | H | * | Et | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIV-21.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-21-1** | $CH_3$ | H | H | H | $^i$Pr | H | H | F | OH |
| **XXIV-21-2** | $CH_3$ | H | H | $CH_3$ | $^i$Pr | H | H | F | OH |
| **XXIV-21-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $^i$Pr | H | H | F | OH |
| **XXIV-21-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | H | F | OH |
| **XXIV-21-5** | $CH_3$ | H | H | $CH_2Ph$ | $^i$Pr | H | H | F | OH |
| **XXIV-21-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | H | F | OH |
| **XXIV-21-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | H | F | OH |
| **XXIV-21-8** | $CH_3$ | * | H | * | $^i$Pr | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIV-22.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-22-1** | Et | H | H | H | $^i$Pr | H | H | F | OH |
| **XXIV-22-2** | Et | H | H | $CH_3$ | $^i$Pr | H | H | F | OH |
| **XXIV-22-3** | Et | H | H | $CH(CH_3)_2$ | $^i$Pr | H | H | F | OH |
| **XXIV-22-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | H | F | OH |
| **XXIV-22-5** | Et | H | H | $CH_2Ph$ | $^i$Pr | H | H | F | OH |
| **XXIV-22-6** | Et | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | H | F | OH |
| **XXIV-22-7** | Et | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | H | F | OH |
| **XXIV-22-8** | Et | * | H | * | $^i$Pr | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00500

Table XXIV-23.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-23-1** | $^i$Pr | H | H | H | $^i$Pr | H | H | F | OH |
| **XXIV-23-2** | $^i$Pr | H | H | $CH_3$ | $^i$Pr | H | H | F | OH |
| **XXIV-23-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $^i$Pr | H | H | F | OH |
| **XXIV-23-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | H | F | OH |
| **XXIV-23-5** | $^i$Pr | H | H | $CH_2Ph$ | $^i$Pr | H | H | F | OH |
| **XXIV-23-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | H | F | OH |
| **XXIV-23-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | H | F | OH |
| **XXIV-23-8** | $^i$Pr | * | H | * | $^i$Pr | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIV-24.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-24-1** | $^t$Bu | H | H | H | $^i$Pr | H | H | F | OH |
| **XXIV-24-2** | $^t$Bu | H | H | $CH_3$ | $^i$Pr | H | H | F | OH |
| **XXIV-24-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $^i$Pr | H | H | F | OH |
| **XXIV-24-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | H | F | OH |
| **XXIV-24-5** | $^t$Bu | H | H | $CH_2Ph$ | $^i$Pr | H | H | F | OH |
| **XXIV-24-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | H | F | OH |
| **XXIV-24-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | H | F | OH |
| **XXIV-24-8** | $^t$Bu | * | H | * | $^i$Pr | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIV-25.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-25-1** | Ph | H | H | H | $^i$Pr | H | H | F | OH |
| **XXIV-25-2** | Ph | H | H | $CH_3$ | $^i$Pr | H | H | F | OH |
| **XXIV-25-3** | Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | H | F | OH |
| **XXIV-25-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | H | F | OH |
| **XXIV-25-5** | Ph | H | H | $CH_2Ph$ | $^i$Pr | H | H | F | OH |
| **XXIV-25-6** | Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | H | F | OH |
| **XXIV-25-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | H | F | OH |
| **XXIV-25-8** | Ph | * | H | * | $^i$Pr | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00501

Table XXIV-26.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-26-1** | p-Me-Ph | H | H | H | $^i$Pr | H | H | F | OH |
| **XXIV-26-2** | p-Me-Ph | H | H | $CH_3$ | $^i$Pr | H | H | F | OH |
| **XXIV-26-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | H | F | OH |
| **XXIV-26-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | H | F | OH |
| **XXIV-26-5** | p-Me-Ph | H | H | $CH_2Ph$ | $^i$Pr | H | H | F | OH |
| **XXIV-26-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | H | F | OH |
| **XXIV-26-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | H | F | OH |
| **XXIV-26-8** | p-Me-Ph | * | H | * | $^i$Pr | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIV-27.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-27-1** | p-F-Ph | H | H | H | $^i$Pr | H | H | F | OH |
| **XXIV-27-2** | p-F-Ph | H | H | $CH_3$ | $^i$Pr | H | H | F | OH |
| **XXIV-27-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | H | F | OH |
| **XXIV-27-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | H | F | OH |
| **XXIV-27-5** | p-F-Ph | H | H | $CH_2Ph$ | $^i$Pr | H | H | F | OH |
| **XXIV-27-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | H | F | OH |
| **XXIV-27-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | H | F | OH |
| **XXIV-27-8** | p-F-Ph | * | H | * | $^i$Pr | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIV-28.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-28-1** | p-Cl-Ph | H | H | H | $^i$Pr | H | H | F | OH |
| **XXIV-28-2** | p-Cl-Ph | H | H | $CH_3$ | $^i$Pr | H | H | F | OH |
| **XXIV-28-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | H | F | OH |
| **XXIV-28-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | H | F | OH |
| **XXIV-28-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $^i$Pr | H | H | F | OH |
| **XXIV-28-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | H | F | OH |
| **XXIV-28-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | H | F | OH |
| **XXIV-28-8** | p-Cl-Ph | * | H | * | $^i$Pr | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00502

Table XXIV-29.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-29-1** | p-Br-Ph | H | H | H | $^i$Pr | H | H | F | OH |
| **XXIV-29-2** | p-Br-Ph | H | H | $CH_3$ | $^i$Pr | H | H | F | OH |
| **XXIV-29-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | H | F | OH |
| **XXIV-29-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | H | F | OH |
| **XXIV-29-5** | p-Br-Ph | H | H | $CH_2Ph$ | $^i$Pr | H | H | F | OH |
| **XXIV-29-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | H | F | OH |
| **XXIV-29-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | H | F | OH |
| **XXIV-29-8** | p-Br-Ph | * | H | * | $^i$Pr | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIV-30.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-30-1** | p-I-Ph | H | H | H | $^i$Pr | H | H | F | OH |
| **XXIV-30-2** | p-I-Ph | H | H | $CH_3$ | $^i$Pr | H | H | F | OH |
| **XXIV-30-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | H | F | OH |
| **XXIV-30-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | H | F | OH |
| **XXIV-30-5** | p-I-Ph | H | H | $CH_2Ph$ | $^i$Pr | H | H | F | OH |
| **XXIV-30-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | H | F | OH |
| **XXIV-30-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | H | F | OH |
| **XXIV-30-8** | p-I-Ph | * | H | * | $^i$Pr | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIV-31.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-31-1** | $CH_3$ | H | H | H | $^n$Bu | H | H | F | OH |
| **XXIV-31-2** | $CH_3$ | H | H | $CH_3$ | $^n$Bu | H | H | F | OH |
| **XXIV-31-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $^n$Bu | H | H | F | OH |
| **XXIV-31-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | H | F | OH |
| **XXIV-31-5** | $CH_3$ | H | H | $CH_2Ph$ | $^n$Bu | H | H | F | OH |
| **XXIV-31-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | H | F | OH |
| **XXIV-31-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | H | F | OH |
| **XXIV-31-8** | $CH_3$ | * | H | * | $^n$Bu | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00503

Table XXIV-32.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-32-1** | Et | H | H | H | $^n$Bu | H | H | F | OH |
| **XXIV-32-2** | Et | H | H | $CH_3$ | $^n$Bu | H | H | F | OH |
| **XXIV-32-3** | Et | H | H | $CH(CH_3)_2$ | $^n$Bu | H | H | F | OH |
| **XXIV-32-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | H | F | OH |
| **XXIV-32-5** | Et | H | H | $CH_2Ph$ | $^n$Bu | H | H | F | OH |
| **XXIV-32-6** | Et | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | H | F | OH |
| **XXIV-32-7** | Et | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | H | F | OH |
| **XXIV-32-8** | Et | * | H | * | $^n$Bu | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIV-33.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-33-1** | $^i$Pr | H | H | H | $^n$Bu | H | H | F | OH |
| **XXIV-33-2** | $^i$Pr | H | H | $CH_3$ | $^n$Bu | H | H | F | OH |
| **XXIV-33-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $^n$Bu | H | H | F | OH |
| **XXIV-33-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | H | F | OH |
| **XXIV-33-5** | $^i$Pr | H | H | $CH_2Ph$ | $^n$Bu | H | H | F | OH |
| **XXIV-33-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | H | F | OH |
| **XXIV-33-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | H | F | OH |
| **XXIV-33-8** | $^i$Pr | * | H | * | $^n$Bu | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIV-34.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-34-1** | $^t$Bu | H | H | H | $^n$Bu | H | H | F | OH |
| **XXIV-34-2** | $^t$Bu | H | H | $CH_3$ | $^n$Bu | H | H | F | OH |
| **XXIV-34-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $^n$Bu | H | H | F | OH |
| **XXIV-34-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | H | F | OH |
| **XXIV-34-5** | $^t$Bu | H | H | $CH_2Ph$ | $^n$Bu | H | H | F | OH |
| **XXIV-34-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | H | F | OH |
| **XXIV-34-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | H | F | OH |
| **XXIV-34-8** | $^t$Bu | * | H | * | $^n$Bu | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00504

Table XXIV-35.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-35-1** | Ph | H | H | H | $^n$Bu | H | H | F | OH |
| **XXIV-35-2** | Ph | H | H | $CH_3$ | $^n$Bu | H | H | F | OH |
| **XXIV-35-3** | Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | H | H | F | OH |
| **XXIV-35-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | H | F | OH |
| **XXIV-35-5** | Ph | H | H | $CH_2Ph$ | $^n$Bu | H | H | F | OH |
| **XXIV-35-6** | Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | H | F | OH |
| **XXIV-35-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | H | F | OH |
| **XXIV-35-8** | Ph | * | H | * | $^n$Bu | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIV-36.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-36-1** | p-Me-Ph | H | H | H | $^n$Bu | H | H | F | OH |
| **XXIV-36-2** | p-Me-Ph | H | H | $CH_3$ | $^n$Bu | H | H | F | OH |
| **XXIV-36-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | H | H | F | OH |
| **XXIV-36-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | H | F | OH |
| **XXIV-36-5** | p-Me-Ph | H | H | $CH_2Ph$ | $^n$Bu | H | H | F | OH |
| **XXIV-36-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | H | F | OH |
| **XXIV-36-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | H | F | OH |
| **XXIV-36-8** | p-Me-Ph | * | H | * | $^n$Bu | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIV-37.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-37-1** | p-F-Ph | H | H | H | $^n$Bu | H | H | F | OH |
| **XXIV-37-2** | p-F-Ph | H | H | $CH_3$ | $^n$Bu | H | H | F | OH |
| **XXIV-37-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | H | H | F | OH |
| **XXIV-37-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | H | F | OH |
| **XXIV-37-5** | p-F-Ph | H | H | $CH_2Ph$ | $^n$Bu | H | H | F | OH |
| **XXIV-37-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | H | F | OH |
| **XXIV-37-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | H | F | OH |
| **XXIV-37-8** | p-F-Ph | * | H | * | $^n$Bu | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00505

Table XXIV-38.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-38-1** | p-Cl-Ph | H | H | H | $^n$Bu | H | H | F | OH |
| **XXIV-38-2** | p-Cl-Ph | H | H | $CH_3$ | $^n$Bu | H | H | F | OH |
| **XXIV-38-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | H | H | F | OH |
| **XXIV-38-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | H | F | OH |
| **XXIV-38-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $^n$Bu | H | H | F | OH |
| **XXIV-38-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | H | F | OH |
| **XXIV-38-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | H | F | OH |
| **XXIV-38-8** | p-Cl-Ph | * | H | * | $^n$Bu | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIV-39.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-39-1** | p-Br-Ph | H | H | H | $^n$Bu | H | H | F | OH |
| **XXIV-39-2** | p-Br-Ph | H | H | $CH_3$ | $^n$Bu | H | H | F | OH |
| **XXIV-39-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | H | H | F | OH |
| **XXIV-39-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | H | F | OH |
| **XXIV-39-5** | p-Br-Ph | H | H | $CH_2Ph$ | $^n$Bu | H | H | F | OH |
| **XXIV-39-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | H | F | OH |
| **XXIV-39-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | H | F | OH |
| **XXIV-39-8** | p-Br-Ph | * | H | * | $^n$Bu | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIV-40.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-40-1** | p-I-Ph | H | H | H | $^n$Bu | H | H | F | OH |
| **XXIV-40-2** | p-I-Ph | H | H | $CH_3$ | $^n$Bu | H | H | F | OH |
| **XXIV-40-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | H | H | F | OH |
| **XXIV-40-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | H | F | OH |
| **XXIV-40-5** | p-I-Ph | H | H | $CH_2Ph$ | $^n$Bu | H | H | F | OH |
| **XXIV-40-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | H | F | OH |
| **XXIV-40-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | H | F | OH |
| **XXIV-40-8** | p-I-Ph | * | H | * | $^n$Bu | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00506

Table XXIV-41.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-41-1** | $CH_3$ | H | H | H | Bz | H | H | F | OH |
| **XXIV-41-2** | $CH_3$ | H | H | $CH_3$ | Bz | H | H | F | OH |
| **XXIV-41-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | Bz | H | H | F | OH |
| **XXIV-41-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | Bz | H | H | F | OH |
| **XXIV-41-5** | $CH_3$ | H | H | $CH_2Ph$ | Bz | H | H | F | OH |
| **XXIV-41-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | Bz | H | H | F | OH |
| **XXIV-41-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | Bz | H | H | F | OH |
| **XXIV-41-8** | $CH_3$ | * | H | * | Bz | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIV-42.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-42-1** | Et | H | H | H | Bz | H | H | F | OH |
| **XXIV-42-2** | Et | H | H | $CH_3$ | Bz | H | H | F | OH |
| **XXIV-42-3** | Et | H | H | $CH(CH_3)_2$ | Bz | H | H | F | OH |
| **XXIV-42-4** | Et | H | H | $CH_2CH(CH_3)_2$ | Bz | H | H | F | OH |
| **XXIV-42-5** | Et | H | H | $CH_2Ph$ | Bz | H | H | F | OH |
| **XXIV-42-6** | Et | H | H | $CH_2$-indol-3-yl | Bz | H | H | F | OH |
| **XXIV-42-7** | Et | H | H | $CH_2CH_2SCH_3$ | Bz | H | H | F | OH |
| **XXIV-42-8** | Et | * | H | * | Bz | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIV-43.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-43-1** | $^i$Pr | H | H | H | Bz | H | H | F | OH |
| **XXIV-43-2** | $^i$Pr | H | H | $CH_3$ | Bz | H | H | F | OH |
| **XXIV-43-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | Bz | H | H | F | OH |
| **XXIV-43-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | Bz | H | H | F | OH |
| **XXIV-43-5** | $^i$Pr | H | H | $CH_2Ph$ | Bz | H | H | F | OH |
| **XXIV-43-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | Bz | H | H | F | OH |
| **XXIV-43-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | Bz | H | H | F | OH |
| **XXIV-43-8** | $^i$Pr | * | H | * | Bz | H | H | F | OH |



Gilead Exhibit 2024
PGR2023-00046 - Page 00507

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIV-44.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-44-1** | $^t$Bu | H | H | H | Bz | H | H | F | OH |
| **XXIV-44-2** | $^t$Bu | H | H | $CH_3$ | Bz | H | H | F | OH |
| **XXIV-44-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | Bz | H | H | F | OH |
| **XXIV-44-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | Bz | H | H | F | OH |
| **XXIV-44-5** | $^t$Bu | H | H | $CH_2Ph$ | Bz | H | H | F | OH |
| **XXIV-44-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | Bz | H | H | F | OH |
| **XXIV-44-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | Bz | H | H | F | OH |
| **XXIV-44-8** | $^t$Bu | * | H | * | Bz | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIV-45.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-45-1** | Ph | H | H | H | Bz | H | H | F | OH |
| **XXIV-45-2** | Ph | H | H | $CH_3$ | Bz | H | H | F | OH |
| **XXIV-45-3** | Ph | H | H | $CH(CH_3)_2$ | Bz | H | H | F | OH |
| **XXIV-45-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | H | H | F | OH |
| **XXIV-45-5** | Ph | H | H | $CH_2Ph$ | Bz | H | H | F | OH |
| **XXIV-45-6** | Ph | H | H | $CH_2$-indol-3-yl | Bz | H | H | F | OH |
| **XXIV-45-7** | Ph | H | H | $CH_2CH_2SCH_3$ | Bz | H | H | F | OH |
| **XXIV-45-8** | Ph | * | H | * | Bz | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIV-46.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-46-1** | p-Me-Ph | H | H | H | Bz | H | H | F | OH |
| **XXIV-46-2** | p-Me-Ph | H | H | $CH_3$ | Bz | H | H | F | OH |
| **XXIV-46-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | Bz | H | H | F | OH |
| **XXIV-46-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | H | H | F | OH |
| **XXIV-46-5** | p-Me-Ph | H | H | $CH_2Ph$ | Bz | H | H | F | OH |
| **XXIV-46-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | Bz | H | H | F | OH |
| **XXIV-46-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | H | H | F | OH |



Gilead Exhibit 2024
PGR2023-00046 - Page 00508

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-46-8** | p-Me-Ph | * | H | * | Bz | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIV-47.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-47-1** | p-F-Ph | H | H | H | Bz | H | H | F | OH |
| **XXIV-47-2** | p-F-Ph | H | H | $CH_3$ | Bz | H | H | F | OH |
| **XXIV-47-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | Bz | H | H | F | OH |
| **XXIV-47-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | H | H | F | OH |
| **XXIV-47-5** | p-F-Ph | H | H | $CH_2Ph$ | Bz | H | H | F | OH |
| **XXIV-47-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | Bz | H | H | F | OH |
| **XXIV-47-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | H | H | F | OH |
| **XXIV-47-8** | p-F-Ph | * | H | * | Bz | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIV-48.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-48-1** | p-Cl-Ph | H | H | H | Bz | H | H | F | OH |
| **XXIV-48-2** | p-Cl-Ph | H | H | $CH_3$ | Bz | H | H | F | OH |
| **XXIV-48-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | Bz | H | H | F | OH |
| **XXIV-48-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | H | H | F | OH |
| **XXIV-48-5** | p-Cl-Ph | H | H | $CH_2Ph$ | Bz | H | H | F | OH |
| **XXIV-48-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | Bz | H | H | F | OH |
| **XXIV-48-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | H | H | F | OH |
| **XXIV-48-8** | p-Cl-Ph | * | H | * | Bz | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIV-49.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-49-1** | p-Br-Ph | H | H | H | Bz | H | H | F | OH |
| **XXIV-49-2** | p-Br-Ph | H | H | $CH_3$ | Bz | H | H | F | OH |
| **XXIV-49-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | Bz | H | H | F | OH |
| **XXIV-49-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | H | H | F | OH |
| **XXIV-49-5** | p-Br-Ph | H | H | $CH_2Ph$ | Bz | H | H | F | OH |



Gilead Exhibit 2024
PGR2023-00046 - Page 00509

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-49-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | Bz | H | H | F | OH |
| **XXIV-49-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | H | H | F | OH |
| **XXIV-49-8** | p-Br-Ph | * | H | * | Bz | H | H | F | OH |

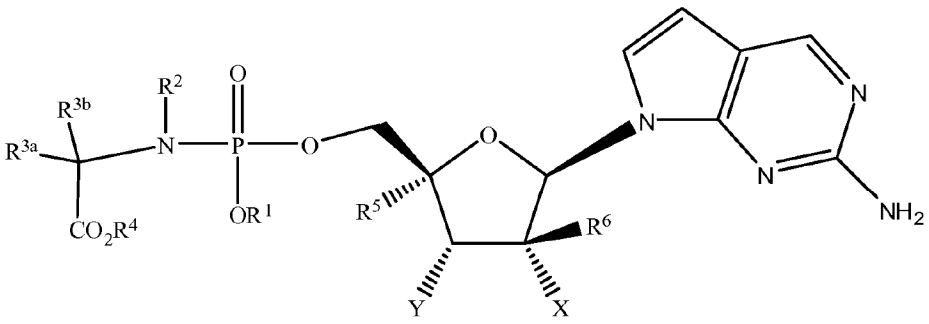
*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIV-50.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIV-50-1** | p-I-Ph | H | H | H | Bz | H | H | F | OH |
| **XXIV-50-2** | p-I-Ph | H | H | $CH_3$ | Bz | H | H | F | OH |
| **XXIV-50-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | Bz | H | H | F | OH |
| **XXIV-50-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | H | H | F | OH |
| **XXIV-50-5** | p-I-Ph | H | H | $CH_2Ph$ | Bz | H | H | F | OH |
| **XXIV-50-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | Bz | H | H | F | OH |
| **XXIV-50-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | H | H | F | OH |
| **XXIV-50-8** | p-I-Ph | * | H | * | Bz | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

5




**XXV**

Table XXV-1.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-1-1** | $CH_3$ | H | H | H | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-1-2** | $CH_3$ | H | H | $CH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-1-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |



Gilead Exhibit 2024
PGR2023-00046 - Page 00510

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-1-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-1-5** | $CH_3$ | H | H | $CH_2Ph$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-1-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-1-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-1-8** | $CH_3$ | * | H | * | $CH_3$ | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXV-2.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-2-1** | Et | H | H | H | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-2-2** | Et | H | H | $CH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-2-3** | Et | H | H | $CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-2-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-2-5** | Et | H | H | $CH_2Ph$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-2-6** | Et | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-2-7** | Et | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-2-8** | Et | * | H | * | $CH_3$ | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXV-3.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-3-1** | $^i$Pr | H | H | H | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-3-2** | $^i$Pr | H | H | $CH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-3-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-3-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-3-5** | $^i$Pr | H | H | $CH_2Ph$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-3-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-3-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-3-8** | $^i$Pr | * | H | * | $CH_3$ | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXV-4.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-4-1** | $^t$Bu | H | H | H | $CH_3$ | H | $CH_3$ | F | OH |



Gilead Exhibit 2024
PGR2023-00046 - Page 00511

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-4-2** | $^t$Bu | H | H | $CH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-4-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-4-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-4-5** | $^t$Bu | H | H | $CH_2Ph$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-4-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-4-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-4-8** | $^t$Bu | * | H | * | $CH_3$ | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXV-5.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-5-1** | Ph | H | H | H | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-5-2** | Ph | H | H | $CH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-5-3** | Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-5-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-5-5** | Ph | H | H | $CH_2Ph$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-5-6** | Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-5-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-5-8** | Ph | * | H | * | $CH_3$ | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXV-6.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-6-1** | p-Me-Ph | H | H | H | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-6-2** | p-Me-Ph | H | H | $CH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-6-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-6-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-6-5** | p-Me-Ph | H | H | $CH_2Ph$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-6-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-6-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-6-8** | p-Me-Ph | * | H | * | $CH_3$ | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXV-7.



Gilead Exhibit 2024
PGR2023-00046 - Page 00512

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-7-1** | p-F-Ph | H | H | H | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-7-2** | p-F-Ph | H | H | $CH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-7-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-7-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-7-6** | p-F-Ph | H | H | $CH_2Ph$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-7-7** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-7-8** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-7-20** | p-F-Ph | * | H | * | $CH_3$ | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXV-8.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-8-1** | p-Cl-Ph | H | H | H | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-8-2** | p-Cl-Ph | H | H | $CH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-8-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-8-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-8-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-8-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-8-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-8-8** | p-Cl-Ph | * | H | * | $CH_3$ | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXV-9.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-9-1** | p-Br-Ph | H | H | H | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-9-2** | p-Br-Ph | H | H | $CH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-9-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-9-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-9-6** | p-Br-Ph | H | H | $CH_2Ph$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-9-7** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-9-8** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-9-20** | p-Br-Ph | * | H | * | $CH_3$ | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00513

Table XXV-10.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-10-1** | p-I-Ph | H | H | H | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-10-2** | p-I-Ph | H | H | $CH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-10-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-10-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-10-5** | p-I-Ph | H | H | $CH_2Ph$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-10-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-10-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXV-10-8** | p-I-Ph | * | H | * | $CH_3$ | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXV-11.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-11-1** | $CH_3$ | H | H | H | Et | H | $CH_3$ | F | OH |
| **XXV-11-2** | $CH_3$ | H | H | $CH_3$ | Et | H | $CH_3$ | F | OH |
| **XXV-11-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXV-11-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXV-11-5** | $CH_3$ | H | H | $CH_2Ph$ | Et | H | $CH_3$ | F | OH |
| **XXV-11-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | Et | H | $CH_3$ | F | OH |
| **XXV-11-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | Et | H | $CH_3$ | F | OH |
| **XXV-11-8** | $CH_3$ | * | H | * | Et | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXV-12.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-12-1** | Et | H | H | H | Et | H | $CH_3$ | F | OH |
| **XXV-12-2** | Et | H | H | $CH_3$ | Et | H | $CH_3$ | F | OH |
| **XXV-12-3** | Et | H | H | $CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXV-12-4** | Et | H | H | $CH_2CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXV-12-5** | Et | H | H | $CH_2Ph$ | Et | H | $CH_3$ | F | OH |
| **XXV-12-6** | Et | H | H | $CH_2$-indol-3-yl | Et | H | $CH_3$ | F | OH |
| **XXV-12-7** | Et | H | H | $CH_2CH_2SCH_3$ | Et | H | $CH_3$ | F | OH |
| **XXV-12-8** | Et | * | H | * | Et | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00514

Table XXV-13.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-13-1** | $^i$Pr | H | H | H | Et | H | $CH_3$ | F | OH |
| **XXV-13-2** | $^i$Pr | H | H | $CH_3$ | Et | H | $CH_3$ | F | OH |
| **XXV-13-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXV-13-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXV-13-5** | $^i$Pr | H | H | $CH_2Ph$ | Et | H | $CH_3$ | F | OH |
| **XXV-13-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | Et | H | $CH_3$ | F | OH |
| **XXV-13-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | Et | H | $CH_3$ | F | OH |
| **XXV-13-8** | $^i$Pr | * | H | * | Et | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXV-14.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-14-1** | $^t$Bu | H | H | H | Et | H | $CH_3$ | F | OH |
| **XXV-14-2** | $^t$Bu | H | H | $CH_3$ | Et | H | $CH_3$ | F | OH |
| **XXV-14-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXV-14-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXV-14-5** | $^t$Bu | H | H | $CH_2Ph$ | Et | H | $CH_3$ | F | OH |
| **XXV-14-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | Et | H | $CH_3$ | F | OH |
| **XXV-14-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | Et | H | $CH_3$ | F | OH |
| **XXV-14-8** | $^t$Bu | * | H | * | Et | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXV-15.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-15-1** | Ph | H | H | H | Et | H | $CH_3$ | F | OH |
| **XXV-15-2** | Ph | H | H | $CH_3$ | Et | H | $CH_3$ | F | OH |
| **XXV-15-3** | Ph | H | H | $CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXV-15-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXV-15-5** | Ph | H | H | $CH_2Ph$ | Et | H | $CH_3$ | F | OH |
| **XXV-15-6** | Ph | H | H | $CH_2$-indol-3-yl | Et | H | $CH_3$ | F | OH |
| **XXV-15-7** | Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | $CH_3$ | F | OH |
| **XXV-15-8** | Ph | * | H | * | Et | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00515

Table XXV-16.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-16-1** | p-Me-Ph | H | H | H | Et | H | $CH_3$ | F | OH |
| **XXV-16-2** | p-Me-Ph | H | H | $CH_3$ | Et | H | $CH_3$ | F | OH |
| **XXV-16-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXV-16-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXV-16-5** | p-Me-Ph | H | H | $CH_2Ph$ | Et | H | $CH_3$ | F | OH |
| **XXV-16-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | Et | H | $CH_3$ | F | OH |
| **XXV-16-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | $CH_3$ | F | OH |
| **XXV-16-8** | p-Me-Ph | * | H | * | Et | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXV-17.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-17-1** | p-F-Ph | H | H | H | Et | H | $CH_3$ | F | OH |
| **XXV-17-2** | p-F-Ph | H | H | $CH_3$ | Et | H | $CH_3$ | F | OH |
| **XXV-17-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXV-17-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXV-17-5** | p-F-Ph | H | H | $CH_2Ph$ | Et | H | $CH_3$ | F | OH |
| **XXV-17-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | Et | H | $CH_3$ | F | OH |
| **XXV-17-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | $CH_3$ | F | OH |
| **XXV-17-8** | p-F-Ph | * | H | * | Et | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXV-18.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-18-1** | p-Cl-Ph | H | H | H | Et | H | $CH_3$ | F | OH |
| **XXV-18-2** | p-Cl-Ph | H | H | $CH_3$ | Et | H | $CH_3$ | F | OH |
| **XXV-18-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXV-18-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXV-18-5** | p-Cl-Ph | H | H | $CH_2Ph$ | Et | H | $CH_3$ | F | OH |
| **XXV-18-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | Et | H | $CH_3$ | F | OH |
| **XXV-18-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | $CH_3$ | F | OH |
| **XXV-18-8** | p-Cl-Ph | * | H | * | Et | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00516

Table XXV-19.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-19-1** | p-Br-Ph | H | H | H | Et | H | $CH_3$ | F | OH |
| **XXV-19-2** | p-Br-Ph | H | H | $CH_3$ | Et | H | $CH_3$ | F | OH |
| **XXV-19-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXV-19-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXV-19-5** | p-Br-Ph | H | H | $CH_2Ph$ | Et | H | $CH_3$ | F | OH |
| **XXV-19-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | Et | H | $CH_3$ | F | OH |
| **XXV-19-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | $CH_3$ | F | OH |
| **XXV-19-8** | p-Br-Ph | * | H | * | Et | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXV-20.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-20-1** | p-I-Ph | H | H | H | Et | H | $CH_3$ | F | OH |
| **XXV-20-2** | p-I-Ph | H | H | $CH_3$ | Et | H | $CH_3$ | F | OH |
| **XXV-20-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXV-20-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXV-20-5** | p-I-Ph | H | H | $CH_2Ph$ | Et | H | $CH_3$ | F | OH |
| **XXV-20-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | Et | H | $CH_3$ | F | OH |
| **XXV-20-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | $CH_3$ | F | OH |
| **XXV-20-8** | p-I-Ph | * | H | * | Et | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXV-21.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-21-1** | $CH_3$ | H | H | H | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-21-2** | $CH_3$ | H | H | $CH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-21-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-21-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-21-5** | $CH_3$ | H | H | $CH_2Ph$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-21-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-21-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-21-8** | $CH_3$ | * | H | * | $^i$Pr | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXV-22.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-22-1** | Et | H | H | H | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-22-2** | Et | H | H | $CH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-22-3** | Et | H | H | $CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-22-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-22-5** | Et | H | H | $CH_2Ph$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-22-6** | Et | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-22-7** | Et | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-22-8** | Et | * | H | * | $^i$Pr | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXV-23.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-23-1** | $^i$Pr | H | H | H | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-23-2** | $^i$Pr | H | H | $CH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-23-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-23-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-23-5** | $^i$Pr | H | H | $CH_2Ph$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-23-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-23-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-23-8** | $^i$Pr | * | H | * | $^i$Pr | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXV-24.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-24-1** | $^t$Bu | H | H | H | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-24-2** | $^t$Bu | H | H | $CH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-24-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-24-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-24-5** | $^t$Bu | H | H | $CH_2Ph$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-24-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-24-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-24-8** | $^t$Bu | * | H | * | $^i$Pr | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00518

Table XXV-25.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-25-1** | Ph | H | H | H | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-25-2** | Ph | H | H | $CH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-25-3** | Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-25-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-25-5** | Ph | H | H | $CH_2Ph$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-25-6** | Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-25-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-25-8** | Ph | * | H | * | $^i$Pr | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXV-26.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-26-1** | p-Me-Ph | H | H | H | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-26-2** | p-Me-Ph | H | H | $CH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-26-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-26-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-26-5** | p-Me-Ph | H | H | $CH_2Ph$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-26-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-26-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-26-8** | p-Me-Ph | * | H | * | $^i$Pr | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXV-27.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-27-1** | p-F-Ph | H | H | H | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-27-2** | p-F-Ph | H | H | $CH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-27-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-27-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-27-5** | p-F-Ph | H | H | $CH_2Ph$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-27-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-27-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-27-8** | p-F-Ph | * | H | * | $^i$Pr | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00519

Table XXV-28.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-28-1** | p-Cl-Ph | H | H | H | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-28-2** | p-Cl-Ph | H | H | $CH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-28-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-28-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-28-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-28-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-28-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-28-8** | p-Cl-Ph | * | H | * | $^i$Pr | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXV-29.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-29-1** | p-Br-Ph | H | H | H | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-29-2** | p-Br-Ph | H | H | $CH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-29-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-29-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-29-5** | p-Br-Ph | H | H | $CH_2Ph$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-29-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-29-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-29-8** | p-Br-Ph | * | H | * | $^i$Pr | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXV-30.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-30-1** | p-I-Ph | H | H | H | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-30-2** | p-I-Ph | H | H | $CH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-30-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-30-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-30-5** | p-I-Ph | H | H | $CH_2Ph$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-30-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-30-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXV-30-8** | p-I-Ph | * | H | * | $^i$Pr | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00520

Table XXV-31.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-31-1** | $CH_3$ | H | H | H | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-31-2** | $CH_3$ | H | H | $CH_3$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-31-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-31-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-31-5** | $CH_3$ | H | H | $CH_2Ph$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-31-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-31-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-31-8** | $CH_3$ | * | H | * | $^n$Bu | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXV-32.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-32-1** | Et | H | H | H | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-32-2** | Et | H | H | $CH_3$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-32-3** | Et | H | H | $CH(CH_3)_2$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-32-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-32-5** | Et | H | H | $CH_2Ph$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-32-6** | Et | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-32-7** | Et | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-32-8** | Et | * | H | * | $^n$Bu | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXV-33.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-33-1** | $^i$Pr | H | H | H | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-33-2** | $^i$Pr | H | H | $CH_3$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-33-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-33-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-33-5** | $^i$Pr | H | H | $CH_2Ph$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-33-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-33-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-33-8** | $^i$Pr | * | H | * | $^n$Bu | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00521

Table XXV-34.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-34-1** | $^t$Bu | H | H | H | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-34-2** | $^t$Bu | H | H | $CH_3$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-34-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-34-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-34-5** | $^t$Bu | H | H | $CH_2Ph$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-34-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-34-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-34-8** | $^t$Bu | * | H | * | $^n$Bu | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXV-35.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-35-1** | Ph | H | H | H | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-35-2** | Ph | H | H | $CH_3$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-35-3** | Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-35-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-35-5** | Ph | H | H | $CH_2Ph$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-35-6** | Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-35-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-35-8** | Ph | * | H | * | $^n$Bu | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXV-36.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-36-1** | p-Me-Ph | H | H | H | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-36-2** | p-Me-Ph | H | H | $CH_3$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-36-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-36-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-36-5** | p-Me-Ph | H | H | $CH_2Ph$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-36-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-36-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-36-8** | p-Me-Ph | * | H | * | $^n$Bu | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00522

Table XXV-37.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-37-1** | p-F-Ph | H | H | H | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-37-2** | p-F-Ph | H | H | $CH_3$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-37-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-37-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-37-5** | p-F-Ph | H | H | $CH_2Ph$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-37-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-37-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-37-8** | p-F-Ph | * | H | * | $^n$Bu | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXV-38.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-38-1** | p-Cl-Ph | H | H | H | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-38-2** | p-Cl-Ph | H | H | $CH_3$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-38-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-38-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-38-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-38-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-38-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-38-8** | p-Cl-Ph | * | H | * | $^n$Bu | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXV-39.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-39-1** | p-Br-Ph | H | H | H | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-39-2** | p-Br-Ph | H | H | $CH_3$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-39-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-39-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-39-5** | p-Br-Ph | H | H | $CH_2Ph$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-39-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-39-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-39-8** | p-Br-Ph | * | H | * | $^n$Bu | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00523

Table XXV-40.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-40-1** | p-I-Ph | H | H | H | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-40-2** | p-I-Ph | H | H | $CH_3$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-40-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-40-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-40-5** | p-I-Ph | H | H | $CH_2Ph$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-40-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-40-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXV-40-8** | p-I-Ph | * | H | * | $^n$Bu | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXV-41.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-41-1** | $CH_3$ | H | H | H | Bz | H | $CH_3$ | F | OH |
| **XXV-41-2** | $CH_3$ | H | H | $CH_3$ | Bz | H | $CH_3$ | F | OH |
| **XXV-41-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | Bz | H | $CH_3$ | F | OH |
| **XXV-41-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | Bz | H | $CH_3$ | F | OH |
| **XXV-41-5** | $CH_3$ | H | H | $CH_2Ph$ | Bz | H | $CH_3$ | F | OH |
| **XXV-41-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | Bz | H | $CH_3$ | F | OH |
| **XXV-41-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | Bz | H | $CH_3$ | F | OH |
| **XXV-41-8** | $CH_3$ | * | H | * | Bz | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXV-42.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-42-1** | Et | H | H | H | Bz | H | $CH_3$ | F | OH |
| **XXV-42-2** | Et | H | H | $CH_3$ | Bz | H | $CH_3$ | F | OH |
| **XXV-42-3** | Et | H | H | $CH(CH_3)_2$ | Bz | H | $CH_3$ | F | OH |
| **XXV-42-4** | Et | H | H | $CH_2CH(CH_3)_2$ | Bz | H | $CH_3$ | F | OH |
| **XXV-42-5** | Et | H | H | $CH_2Ph$ | Bz | H | $CH_3$ | F | OH |
| **XXV-42-6** | Et | H | H | $CH_2$-indol-3-yl | Bz | H | $CH_3$ | F | OH |
| **XXV-42-7** | Et | H | H | $CH_2CH_2SCH_3$ | Bz | H | $CH_3$ | F | OH |
| **XXV-42-8** | Et | * | H | * | Bz | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00524

Table XXV-43.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-43-1** | $^i$Pr | H | H | H | Bz | H | $CH_3$ | F | OH |
| **XXV-43-2** | $^i$Pr | H | H | $CH_3$ | Bz | H | $CH_3$ | F | OH |
| **XXV-43-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | Bz | H | $CH_3$ | F | OH |
| **XXV-43-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | Bz | H | $CH_3$ | F | OH |
| **XXV-43-5** | $^i$Pr | H | H | $CH_2Ph$ | Bz | H | $CH_3$ | F | OH |
| **XXV-43-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | Bz | H | $CH_3$ | F | OH |
| **XXV-43-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | Bz | H | $CH_3$ | F | OH |
| **XXV-43-8** | $^i$Pr | * | H | * | Bz | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXV-44.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-44-1** | $^t$Bu | H | H | H | Bz | H | $CH_3$ | F | OH |
| **XXV-44-2** | $^t$Bu | H | H | $CH_3$ | Bz | H | $CH_3$ | F | OH |
| **XXV-44-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | Bz | H | $CH_3$ | F | OH |
| **XXV-44-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | Bz | H | $CH_3$ | F | OH |
| **XXV-44-5** | $^t$Bu | H | H | $CH_2Ph$ | Bz | H | $CH_3$ | F | OH |
| **XXV-44-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | Bz | H | $CH_3$ | F | OH |
| **XXV-44-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | Bz | H | $CH_3$ | F | OH |
| **XXV-44-8** | $^t$Bu | * | H | * | Bz | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXV-45.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-45-1** | Ph | H | H | H | Bz | H | $CH_3$ | F | OH |
| **XXV-45-2** | Ph | H | H | $CH_3$ | Bz | H | $CH_3$ | F | OH |
| **XXV-45-3** | Ph | H | H | $CH(CH_3)_2$ | Bz | H | $CH_3$ | F | OH |
| **XXV-45-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | H | $CH_3$ | F | OH |
| **XXV-45-5** | Ph | H | H | $CH_2Ph$ | Bz | H | $CH_3$ | F | OH |
| **XXV-45-6** | Ph | H | H | $CH_2$-indol-3-yl | Bz | H | $CH_3$ | F | OH |
| **XXV-45-7** | Ph | H | H | $CH_2CH_2SCH_3$ | Bz | H | $CH_3$ | F | OH |
| **XXV-45-8** | Ph | * | H | * | Bz | H | $CH_3$ | F | OH |



Gilead Exhibit 2024
PGR2023-00046 - Page 00525

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXV-46.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-46-1** | p-Me-Ph | H | H | H | Bz | H | $CH_3$ | F | OH |
| **XXV-46-2** | p-Me-Ph | H | H | $CH_3$ | Bz | H | $CH_3$ | F | OH |
| **XXV-46-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | Bz | H | $CH_3$ | F | OH |
| **XXV-46-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | H | $CH_3$ | F | OH |
| **XXV-46-5** | p-Me-Ph | H | H | $CH_2Ph$ | Bz | H | $CH_3$ | F | OH |
| **XXV-46-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | Bz | H | $CH_3$ | F | OH |
| **XXV-46-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | H | $CH_3$ | F | OH |
| **XXV-46-8** | p-Me-Ph | * | H | * | Bz | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXV-47.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-47-1** | p-F-Ph | H | H | H | Bz | H | $CH_3$ | F | OH |
| **XXV-47-2** | p-F-Ph | H | H | $CH_3$ | Bz | H | $CH_3$ | F | OH |
| **XXV-47-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | Bz | H | $CH_3$ | F | OH |
| **XXV-47-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | H | $CH_3$ | F | OH |
| **XXV-47-5** | p-F-Ph | H | H | $CH_2Ph$ | Bz | H | $CH_3$ | F | OH |
| **XXV-47-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | Bz | H | $CH_3$ | F | OH |
| **XXV-47-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | H | $CH_3$ | F | OH |
| **XXV-47-8** | p-F-Ph | * | H | * | Bz | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXV-48.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-48-1** | p-Cl-Ph | H | H | H | Bz | H | $CH_3$ | F | OH |
| **XXV-48-2** | p-Cl-Ph | H | H | $CH_3$ | Bz | H | $CH_3$ | F | OH |
| **XXV-48-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | Bz | H | $CH_3$ | F | OH |
| **XXV-48-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | H | $CH_3$ | F | OH |
| **XXV-48-5** | p-Cl-Ph | H | H | $CH_2Ph$ | Bz | H | $CH_3$ | F | OH |
| **XXV-48-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | Bz | H | $CH_3$ | F | OH |
| **XXV-48-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | H | $CH_3$ | F | OH |



Gilead Exhibit 2024
PGR2023-00046 - Page 00526

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-48-8** | p-Cl-Ph | * | H | * | Bz | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXV-49.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-49-1** | p-Br-Ph | H | H | H | Bz | H | $CH_3$ | F | OH |
| **XXV-49-2** | p-Br-Ph | H | H | $CH_3$ | Bz | H | $CH_3$ | F | OH |
| **XXV-49-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | Bz | H | $CH_3$ | F | OH |
| **XXV-49-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | H | $CH_3$ | F | OH |
| **XXV-49-5** | p-Br-Ph | H | H | $CH_2Ph$ | Bz | H | $CH_3$ | F | OH |
| **XXV-49-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | Bz | H | $CH_3$ | F | OH |
| **XXV-49-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | H | $CH_3$ | F | OH |
| **XXV-49-8** | p-Br-Ph | * | H | * | Bz | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

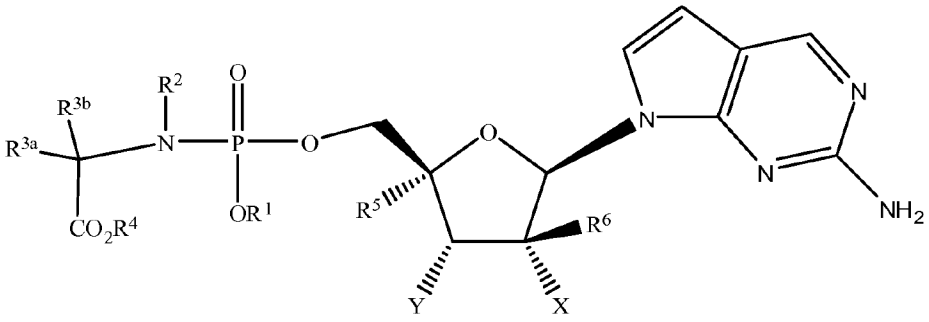
Table XXV-50.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXV-50-1** | p-I-Ph | H | H | H | Bz | H | $CH_3$ | F | OH |
| **XXV-50-2** | p-I-Ph | H | H | $CH_3$ | Bz | H | $CH_3$ | F | OH |
| **XXV-50-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | Bz | H | $CH_3$ | F | OH |
| **XXV-50-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | H | $CH_3$ | F | OH |
| **XXV-50-5** | p-I-Ph | H | H | $CH_2Ph$ | Bz | H | $CH_3$ | F | OH |
| **XXV-50-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | Bz | H | $CH_3$ | F | OH |
| **XXV-50-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | H | $CH_3$ | F | OH |
| **XXV-50-8** | p-I-Ph | * | H | * | Bz | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00527



**XXVI**

Table XXVI-1.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-1-1** | $CH_3$ | H | H | H | $CH_3$ | H | F | H | OH |
| **XXVI-1-2** | $CH_3$ | H | H | $CH_3$ | $CH_3$ | H | F | H | OH |
| **XXVI-1-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $CH_3$ | H | F | H | OH |
| **XXVI-1-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | F | H | OH |
| **XXVI-1-5** | $CH_3$ | H | H | $CH_2Ph$ | $CH_3$ | H | F | H | OH |
| **XXVI-1-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | F | H | OH |
| **XXVI-1-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | F | H | OH |
| **XXVI-1-8** | $CH_3$ | * | H | * | $CH_3$ | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVI-2.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-2-1** | Et | H | H | H | $CH_3$ | H | F | H | OH |
| **XXVI-2-2** | Et | H | H | $CH_3$ | $CH_3$ | H | F | H | OH |
| **XXVI-2-3** | Et | H | H | $CH(CH_3)_2$ | $CH_3$ | H | F | H | OH |
| **XXVI-2-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | F | H | OH |
| **XXVI-2-5** | Et | H | H | $CH_2Ph$ | $CH_3$ | H | F | H | OH |
| **XXVI-2-6** | Et | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | F | H | OH |
| **XXVI-2-7** | Et | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | F | H | OH |
| **XXVI-2-8** | Et | * | H | * | $CH_3$ | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVI-3.



Gilead Exhibit 2024
PGR2023-00046 - Page 00528

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-3-1** | $^i$Pr | H | H | H | $CH_3$ | H | F | H | OH |
| **XXVI-3-2** | $^i$Pr | H | H | $CH_3$ | $CH_3$ | H | F | H | OH |
| **XXVI-3-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $CH_3$ | H | F | H | OH |
| **XXVI-3-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | F | H | OH |
| **XXVI-3-5** | $^i$Pr | H | H | $CH_2Ph$ | $CH_3$ | H | F | H | OH |
| **XXVI-3-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | F | H | OH |
| **XXVI-3-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | F | H | OH |
| **XXVI-3-8** | $^i$Pr | * | H | * | $CH_3$ | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVI-4.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-4-1** | $^t$Bu | H | H | H | $CH_3$ | H | F | H | OH |
| **XXVI-4-2** | $^t$Bu | H | H | $CH_3$ | $CH_3$ | H | F | H | OH |
| **XXVI-4-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $CH_3$ | H | F | H | OH |
| **XXVI-4-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | F | H | OH |
| **XXVI-4-5** | $^t$Bu | H | H | $CH_2Ph$ | $CH_3$ | H | F | H | OH |
| **XXVI-4-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | F | H | OH |
| **XXVI-4-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | F | H | OH |
| **XXVI-4-8** | $^t$Bu | * | H | * | $CH_3$ | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVI-5.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-5-1** | Ph | H | H | H | $CH_3$ | H | F | H | OH |
| **XXVI-5-2** | Ph | H | H | $CH_3$ | $CH_3$ | H | F | H | OH |
| **XXVI-5-3** | Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | F | H | OH |
| **XXVI-5-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | F | H | OH |
| **XXVI-5-5** | Ph | H | H | $CH_2Ph$ | $CH_3$ | H | F | H | OH |
| **XXVI-5-6** | Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | F | H | OH |
| **XXVI-5-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | F | H | OH |
| **XXVI-5-8** | Ph | * | H | * | $CH_3$ | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00529

Table XXVI-6.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-6-1** | p-Me-Ph | H | H | H | $CH_3$ | H | F | H | OH |
| **XXVI-6-2** | p-Me-Ph | H | H | $CH_3$ | $CH_3$ | H | F | H | OH |
| **XXVI-6-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | F | H | OH |
| **XXVI-6-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | F | H | OH |
| **XXVI-6-5** | p-Me-Ph | H | H | $CH_2Ph$ | $CH_3$ | H | F | H | OH |
| **XXVI-6-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | F | H | OH |
| **XXVI-6-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | F | H | OH |
| **XXVI-6-8** | p-Me-Ph | * | H | * | $CH_3$ | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVI-7.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-7-1** | p-F-Ph | H | H | H | $CH_3$ | H | F | H | OH |
| **XXVI-7-2** | p-F-Ph | H | H | $CH_3$ | $CH_3$ | H | F | H | OH |
| **XXVI-7-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | F | H | OH |
| **XXVI-7-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | F | H | OH |
| **XXVI-7-6** | p-F-Ph | H | H | $CH_2Ph$ | $CH_3$ | H | F | H | OH |
| **XXVI-7-7** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | F | H | OH |
| **XXVI-7-8** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | F | H | OH |
| **XXVI-7-20** | p-F-Ph | * | H | * | $CH_3$ | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVI-8.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-8-1** | p-Cl-Ph | H | H | H | $CH_3$ | H | F | H | OH |
| **XXVI-8-2** | p-Cl-Ph | H | H | $CH_3$ | $CH_3$ | H | F | H | OH |
| **XXVI-8-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | F | H | OH |
| **XXVI-8-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | F | H | OH |
| **XXVI-8-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $CH_3$ | H | F | H | OH |
| **XXVI-8-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | F | H | OH |
| **XXVI-8-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | F | H | OH |
| **XXVI-8-8** | p-Cl-Ph | * | H | * | $CH_3$ | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00530

Table XXVI-9.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-9-1** | p-Br-Ph | H | H | H | $CH_3$ | H | F | H | OH |
| **XXVI-9-2** | p-Br-Ph | H | H | $CH_3$ | $CH_3$ | H | F | H | OH |
| **XXVI-9-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | F | H | OH |
| **XXVI-9-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | F | H | OH |
| **XXVI-9-6** | p-Br-Ph | H | H | $CH_2Ph$ | $CH_3$ | H | F | H | OH |
| **XXVI-9-7** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | F | H | OH |
| **XXVI-9-8** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | F | H | OH |
| **XXVI-9-20** | p-Br-Ph | * | H | * | $CH_3$ | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVI-10.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-10-1** | p-I-Ph | H | H | H | $CH_3$ | H | F | H | OH |
| **XXVI-10-2** | p-I-Ph | H | H | $CH_3$ | $CH_3$ | H | F | H | OH |
| **XXVI-10-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | F | H | OH |
| **XXVI-10-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | F | H | OH |
| **XXVI-10-5** | p-I-Ph | H | H | $CH_2Ph$ | $CH_3$ | H | F | H | OH |
| **XXVI-10-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | F | H | OH |
| **XXVI-10-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | F | H | OH |
| **XXVI-10-8** | p-I-Ph | * | H | * | $CH_3$ | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVI-11.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-11-1** | $CH_3$ | H | H | H | Et | H | F | H | OH |
| **XXVI-11-2** | $CH_3$ | H | H | $CH_3$ | Et | H | F | H | OH |
| **XXVI-11-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | Et | H | F | H | OH |
| **XXVI-11-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | Et | H | F | H | OH |
| **XXVI-11-5** | $CH_3$ | H | H | $CH_2Ph$ | Et | H | F | H | OH |
| **XXVI-11-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | Et | H | F | H | OH |
| **XXVI-11-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | Et | H | F | H | OH |
| **XXVI-11-8** | $CH_3$ | * | H | * | Et | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00531

Table XXVI-12.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-12-1** | Et | H | H | H | Et | H | F | H | OH |
| **XXVI-12-2** | Et | H | H | $CH_3$ | Et | H | F | H | OH |
| **XXVI-12-3** | Et | H | H | $CH(CH_3)_2$ | Et | H | F | H | OH |
| **XXVI-12-4** | Et | H | H | $CH_2CH(CH_3)_2$ | Et | H | F | H | OH |
| **XXVI-12-5** | Et | H | H | $CH_2Ph$ | Et | H | F | H | OH |
| **XXVI-12-6** | Et | H | H | $CH_2$-indol-3-yl | Et | H | F | H | OH |
| **XXVI-12-7** | Et | H | H | $CH_2CH_2SCH_3$ | Et | H | F | H | OH |
| **XXVI-12-8** | Et | * | H | * | Et | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVI-13.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-13-1** | $^i$Pr | H | H | H | Et | H | F | H | OH |
| **XXVI-13-2** | $^i$Pr | H | H | $CH_3$ | Et | H | F | H | OH |
| **XXVI-13-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | Et | H | F | H | OH |
| **XXVI-13-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | Et | H | F | H | OH |
| **XXVI-13-5** | $^i$Pr | H | H | $CH_2Ph$ | Et | H | F | H | OH |
| **XXVI-13-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | Et | H | F | H | OH |
| **XXVI-13-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | Et | H | F | H | OH |
| **XXVI-13-8** | $^i$Pr | * | H | * | Et | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVI-14.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-14-1** | $^t$Bu | H | H | H | Et | H | F | H | OH |
| **XXVI-14-2** | $^t$Bu | H | H | $CH_3$ | Et | H | F | H | OH |
| **XXVI-14-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | Et | H | F | H | OH |
| **XXVI-14-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | Et | H | F | H | OH |
| **XXVI-14-5** | $^t$Bu | H | H | $CH_2Ph$ | Et | H | F | H | OH |
| **XXVI-14-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | Et | H | F | H | OH |
| **XXVI-14-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | Et | H | F | H | OH |
| **XXVI-14-8** | $^t$Bu | * | H | * | Et | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00532

Table XXVI-15.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-15-1** | Ph | H | H | H | Et | H | F | H | OH |
| **XXVI-15-2** | Ph | H | H | $CH_3$ | Et | H | F | H | OH |
| **XXVI-15-3** | Ph | H | H | $CH(CH_3)_2$ | Et | H | F | H | OH |
| **XXVI-15-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | F | H | OH |
| **XXVI-15-5** | Ph | H | H | $CH_2Ph$ | Et | H | F | H | OH |
| **XXVI-15-6** | Ph | H | H | $CH_2$-indol-3-yl | Et | H | F | H | OH |
| **XXVI-15-7** | Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | F | H | OH |
| **XXVI-15-8** | Ph | * | H | * | Et | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVI-16.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-16-1** | p-Me-Ph | H | H | H | Et | H | F | H | OH |
| **XXVI-16-2** | p-Me-Ph | H | H | $CH_3$ | Et | H | F | H | OH |
| **XXVI-16-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | Et | H | F | H | OH |
| **XXVI-16-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | F | H | OH |
| **XXVI-16-5** | p-Me-Ph | H | H | $CH_2Ph$ | Et | H | F | H | OH |
| **XXVI-16-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | Et | H | F | H | OH |
| **XXVI-16-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | F | H | OH |
| **XXVI-16-8** | p-Me-Ph | * | H | * | Et | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVI-17.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-17-1** | p-F-Ph | H | H | H | Et | H | F | H | OH |
| **XXVI-17-2** | p-F-Ph | H | H | $CH_3$ | Et | H | F | H | OH |
| **XXVI-17-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | Et | H | F | H | OH |
| **XXVI-17-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | F | H | OH |
| **XXVI-17-5** | p-F-Ph | H | H | $CH_2Ph$ | Et | H | F | H | OH |
| **XXVI-17-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | Et | H | F | H | OH |
| **XXVI-17-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | F | H | OH |
| **XXVI-17-8** | p-F-Ph | * | H | * | Et | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00533

Table XXVI-18.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-18-1** | p-Cl-Ph | H | H | H | Et | H | F | H | OH |
| **XXVI-18-2** | p-Cl-Ph | H | H | $CH_3$ | Et | H | F | H | OH |
| **XXVI-18-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | Et | H | F | H | OH |
| **XXVI-18-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | F | H | OH |
| **XXVI-18-5** | p-Cl-Ph | H | H | $CH_2Ph$ | Et | H | F | H | OH |
| **XXVI-18-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | Et | H | F | H | OH |
| **XXVI-18-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | F | H | OH |
| **XXVI-18-8** | p-Cl-Ph | * | H | * | Et | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVI-19.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-19-1** | p-Br-Ph | H | H | H | Et | H | F | H | OH |
| **XXVI-19-2** | p-Br-Ph | H | H | $CH_3$ | Et | H | F | H | OH |
| **XXVI-19-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | Et | H | F | H | OH |
| **XXVI-19-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | F | H | OH |
| **XXVI-19-5** | p-Br-Ph | H | H | $CH_2Ph$ | Et | H | F | H | OH |
| **XXVI-19-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | Et | H | F | H | OH |
| **XXVI-19-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | F | H | OH |
| **XXVI-19-8** | p-Br-Ph | * | H | * | Et | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVI-20.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-20-1** | p-I-Ph | H | H | H | Et | H | F | H | OH |
| **XXVI-20-2** | p-I-Ph | H | H | $CH_3$ | Et | H | F | H | OH |
| **XXVI-20-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | Et | H | F | H | OH |
| **XXVI-20-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | F | H | OH |
| **XXVI-20-5** | p-I-Ph | H | H | $CH_2Ph$ | Et | H | F | H | OH |
| **XXVI-20-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | Et | H | F | H | OH |
| **XXVI-20-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | F | H | OH |
| **XXVI-20-8** | p-I-Ph | * | H | * | Et | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00534

Table XXVI-21.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-21-1** | $CH_3$ | H | H | H | $^i$Pr | H | F | H | OH |
| **XXVI-21-2** | $CH_3$ | H | H | $CH_3$ | $^i$Pr | H | F | H | OH |
| **XXVI-21-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $^i$Pr | H | F | H | OH |
| **XXVI-21-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | F | H | OH |
| **XXVI-21-5** | $CH_3$ | H | H | $CH_2Ph$ | $^i$Pr | H | F | H | OH |
| **XXVI-21-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | F | H | OH |
| **XXVI-21-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | F | H | OH |
| **XXVI-21-8** | $CH_3$ | * | H | * | $^i$Pr | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVI-22.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-22-1** | Et | H | H | H | $^i$Pr | H | F | H | OH |
| **XXVI-22-2** | Et | H | H | $CH_3$ | $^i$Pr | H | F | H | OH |
| **XXVI-22-3** | Et | H | H | $CH(CH_3)_2$ | $^i$Pr | H | F | H | OH |
| **XXVI-22-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | F | H | OH |
| **XXVI-22-5** | Et | H | H | $CH_2Ph$ | $^i$Pr | H | F | H | OH |
| **XXVI-22-6** | Et | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | F | H | OH |
| **XXVI-22-7** | Et | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | F | H | OH |
| **XXVI-22-8** | Et | * | H | * | $^i$Pr | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVI-23.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-23-1** | $^i$Pr | H | H | H | $^i$Pr | H | F | H | OH |
| **XXVI-23-2** | $^i$Pr | H | H | $CH_3$ | $^i$Pr | H | F | H | OH |
| **XXVI-23-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $^i$Pr | H | F | H | OH |
| **XXVI-23-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | F | H | OH |
| **XXVI-23-5** | $^i$Pr | H | H | $CH_2Ph$ | $^i$Pr | H | F | H | OH |
| **XXVI-23-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | F | H | OH |
| **XXVI-23-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | F | H | OH |
| **XXVI-23-8** | $^i$Pr | * | H | * | $^i$Pr | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00535

Table XXVI-24.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-24-1** | $^t$Bu | H | H | H | $^i$Pr | H | F | H | OH |
| **XXVI-24-2** | $^t$Bu | H | H | $CH_3$ | $^i$Pr | H | F | H | OH |
| **XXVI-24-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $^i$Pr | H | F | H | OH |
| **XXVI-24-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | F | H | OH |
| **XXVI-24-5** | $^t$Bu | H | H | $CH_2Ph$ | $^i$Pr | H | F | H | OH |
| **XXVI-24-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | F | H | OH |
| **XXVI-24-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | F | H | OH |
| **XXVI-24-8** | $^t$Bu | * | H | * | $^i$Pr | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVI-25.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-25-1** | Ph | H | H | H | $^i$Pr | H | F | H | OH |
| **XXVI-25-2** | Ph | H | H | $CH_3$ | $^i$Pr | H | F | H | OH |
| **XXVI-25-3** | Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | F | H | OH |
| **XXVI-25-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | F | H | OH |
| **XXVI-25-5** | Ph | H | H | $CH_2Ph$ | $^i$Pr | H | F | H | OH |
| **XXVI-25-6** | Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | F | H | OH |
| **XXVI-25-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | F | H | OH |
| **XXVI-25-8** | Ph | * | H | * | $^i$Pr | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVI-26.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-26-1** | p-Me-Ph | H | H | H | $^i$Pr | H | F | H | OH |
| **XXVI-26-2** | p-Me-Ph | H | H | $CH_3$ | $^i$Pr | H | F | H | OH |
| **XXVI-26-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | F | H | OH |
| **XXVI-26-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | F | H | OH |
| **XXVI-26-5** | p-Me-Ph | H | H | $CH_2Ph$ | $^i$Pr | H | F | H | OH |
| **XXVI-26-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | F | H | OH |
| **XXVI-26-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | F | H | OH |
| **XXVI-26-8** | p-Me-Ph | * | H | * | $^i$Pr | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00536

Table XXVI-27.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-27-1** | p-F-Ph | H | H | H | $^i$Pr | H | F | H | OH |
| **XXVI-27-2** | p-F-Ph | H | H | $CH_3$ | $^i$Pr | H | F | H | OH |
| **XXVI-27-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | F | H | OH |
| **XXVI-27-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | F | H | OH |
| **XXVI-27-5** | p-F-Ph | H | H | $CH_2Ph$ | $^i$Pr | H | F | H | OH |
| **XXVI-27-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | F | H | OH |
| **XXVI-27-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | F | H | OH |
| **XXVI-27-8** | p-F-Ph | * | H | * | $^i$Pr | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVI-28.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-28-1** | p-Cl-Ph | H | H | H | $^i$Pr | H | F | H | OH |
| **XXVI-28-2** | p-Cl-Ph | H | H | $CH_3$ | $^i$Pr | H | F | H | OH |
| **XXVI-28-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | F | H | OH |
| **XXVI-28-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | F | H | OH |
| **XXVI-28-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $^i$Pr | H | F | H | OH |
| **XXVI-28-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | F | H | OH |
| **XXVI-28-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | F | H | OH |
| **XXVI-28-8** | p-Cl-Ph | * | H | * | $^i$Pr | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVI-29.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-29-1** | p-Br-Ph | H | H | H | $^i$Pr | H | F | H | OH |
| **XXVI-29-2** | p-Br-Ph | H | H | $CH_3$ | $^i$Pr | H | F | H | OH |
| **XXVI-29-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | F | H | OH |
| **XXVI-29-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | F | H | OH |
| **XXVI-29-5** | p-Br-Ph | H | H | $CH_2Ph$ | $^i$Pr | H | F | H | OH |
| **XXVI-29-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | F | H | OH |
| **XXVI-29-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | F | H | OH |
| **XXVI-29-8** | p-Br-Ph | * | H | * | $^i$Pr | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00537

Table XXVI-30.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-30-1** | p-I-Ph | H | H | H | $^i$Pr | H | F | H | OH |
| **XXVI-30-2** | p-I-Ph | H | H | $CH_3$ | $^i$Pr | H | F | H | OH |
| **XXVI-30-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | F | H | OH |
| **XXVI-30-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | F | H | OH |
| **XXVI-30-5** | p-I-Ph | H | H | $CH_2Ph$ | $^i$Pr | H | F | H | OH |
| **XXVI-30-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | F | H | OH |
| **XXVI-30-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | F | H | OH |
| **XXVI-30-8** | p-I-Ph | * | H | * | $^i$Pr | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVI-31.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-31-1** | $CH_3$ | H | H | H | $^n$Bu | H | F | H | OH |
| **XXVI-31-2** | $CH_3$ | H | H | $CH_3$ | $^n$Bu | H | F | H | OH |
| **XXVI-31-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $^n$Bu | H | F | H | OH |
| **XXVI-31-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | F | H | OH |
| **XXVI-31-5** | $CH_3$ | H | H | $CH_2Ph$ | $^n$Bu | H | F | H | OH |
| **XXVI-31-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | F | H | OH |
| **XXVI-31-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | F | H | OH |
| **XXVI-31-8** | $CH_3$ | * | H | * | $^n$Bu | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVI-32.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-32-1** | Et | H | H | H | $^n$Bu | H | F | H | OH |
| **XXVI-32-2** | Et | H | H | $CH_3$ | $^n$Bu | H | F | H | OH |
| **XXVI-32-3** | Et | H | H | $CH(CH_3)_2$ | $^n$Bu | H | F | H | OH |
| **XXVI-32-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | F | H | OH |
| **XXVI-32-5** | Et | H | H | $CH_2Ph$ | $^n$Bu | H | F | H | OH |
| **XXVI-32-6** | Et | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | F | H | OH |
| **XXVI-32-7** | Et | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | F | H | OH |
| **XXVI-32-8** | Et | * | H | * | $^n$Bu | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00538

Table XXVI-33.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-33-1** | $^i$Pr | H | H | H | $^n$Bu | H | F | H | OH |
| **XXVI-33-2** | $^i$Pr | H | H | $CH_3$ | $^n$Bu | H | F | H | OH |
| **XXVI-33-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $^n$Bu | H | F | H | OH |
| **XXVI-33-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | F | H | OH |
| **XXVI-33-5** | $^i$Pr | H | H | $CH_2Ph$ | $^n$Bu | H | F | H | OH |
| **XXVI-33-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | F | H | OH |
| **XXVI-33-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | F | H | OH |
| **XXVI-33-8** | $^i$Pr | * | H | * | $^n$Bu | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVI-34.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-34-1** | $^t$Bu | H | H | H | $^n$Bu | H | F | H | OH |
| **XXVI-34-2** | $^t$Bu | H | H | $CH_3$ | $^n$Bu | H | F | H | OH |
| **XXVI-34-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $^n$Bu | H | F | H | OH |
| **XXVI-34-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | F | H | OH |
| **XXVI-34-5** | $^t$Bu | H | H | $CH_2Ph$ | $^n$Bu | H | F | H | OH |
| **XXVI-34-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | F | H | OH |
| **XXVI-34-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | F | H | OH |
| **XXVI-34-8** | $^t$Bu | * | H | * | $^n$Bu | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVI-35.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-35-1** | Ph | H | H | H | $^n$Bu | H | F | H | OH |
| **XXVI-35-2** | Ph | H | H | $CH_3$ | $^n$Bu | H | F | H | OH |
| **XXVI-35-3** | Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | H | F | H | OH |
| **XXVI-35-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | F | H | OH |
| **XXVI-35-5** | Ph | H | H | $CH_2Ph$ | $^n$Bu | H | F | H | OH |
| **XXVI-35-6** | Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | F | H | OH |
| **XXVI-35-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | F | H | OH |
| **XXVI-35-8** | Ph | * | H | * | $^n$Bu | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00539

Table XXVI-36.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-36-1** | p-Me-Ph | H | H | H | $^n$Bu | H | F | H | OH |
| **XXVI-36-2** | p-Me-Ph | H | H | $CH_3$ | $^n$Bu | H | F | H | OH |
| **XXVI-36-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | H | F | H | OH |
| **XXVI-36-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | F | H | OH |
| **XXVI-36-5** | p-Me-Ph | H | H | $CH_2Ph$ | $^n$Bu | H | F | H | OH |
| **XXVI-36-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | F | H | OH |
| **XXVI-36-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | F | H | OH |
| **XXVI-36-8** | p-Me-Ph | * | H | * | $^n$Bu | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVI-37.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-37-1** | p-F-Ph | H | H | H | $^n$Bu | H | F | H | OH |
| **XXVI-37-2** | p-F-Ph | H | H | $CH_3$ | $^n$Bu | H | F | H | OH |
| **XXVI-37-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | H | F | H | OH |
| **XXVI-37-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | F | H | OH |
| **XXVI-37-5** | p-F-Ph | H | H | $CH_2Ph$ | $^n$Bu | H | F | H | OH |
| **XXVI-37-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | F | H | OH |
| **XXVI-37-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | F | H | OH |
| **XXVI-37-8** | p-F-Ph | * | H | * | $^n$Bu | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVI-38.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-38-1** | p-Cl-Ph | H | H | H | $^n$Bu | H | F | H | OH |
| **XXVI-38-2** | p-Cl-Ph | H | H | $CH_3$ | $^n$Bu | H | F | H | OH |
| **XXVI-38-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | H | F | H | OH |
| **XXVI-38-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | F | H | OH |
| **XXVI-38-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $^n$Bu | H | F | H | OH |
| **XXVI-38-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | F | H | OH |
| **XXVI-38-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | F | H | OH |
| **XXVI-38-8** | p-Cl-Ph | * | H | * | $^n$Bu | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00540

Table XXVI-39.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-39-1** | p-Br-Ph | H | H | H | $^n$Bu | H | F | H | OH |
| **XXVI-39-2** | p-Br-Ph | H | H | $CH_3$ | $^n$Bu | H | F | H | OH |
| **XXVI-39-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | H | F | H | OH |
| **XXVI-39-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | F | H | OH |
| **XXVI-39-5** | p-Br-Ph | H | H | $CH_2Ph$ | $^n$Bu | H | F | H | OH |
| **XXVI-39-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | F | H | OH |
| **XXVI-39-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | F | H | OH |
| **XXVI-39-8** | p-Br-Ph | * | H | * | $^n$Bu | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVI-40.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-40-1** | p-I-Ph | H | H | H | $^n$Bu | H | F | H | OH |
| **XXVI-40-2** | p-I-Ph | H | H | $CH_3$ | $^n$Bu | H | F | H | OH |
| **XXVI-40-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | H | F | H | OH |
| **XXVI-40-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | F | H | OH |
| **XXVI-40-5** | p-I-Ph | H | H | $CH_2Ph$ | $^n$Bu | H | F | H | OH |
| **XXVI-40-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | F | H | OH |
| **XXVI-40-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | F | H | OH |
| **XXVI-40-8** | p-I-Ph | * | H | * | $^n$Bu | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVI-41.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-41-1** | $CH_3$ | H | H | H | Bz | H | F | H | OH |
| **XXVI-41-2** | $CH_3$ | H | H | $CH_3$ | Bz | H | F | H | OH |
| **XXVI-41-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | Bz | H | F | H | OH |
| **XXVI-41-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | Bz | H | F | H | OH |
| **XXVI-41-5** | $CH_3$ | H | H | $CH_2Ph$ | Bz | H | F | H | OH |
| **XXVI-41-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | Bz | H | F | H | OH |
| **XXVI-41-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | Bz | H | F | H | OH |
| **XXVI-41-8** | $CH_3$ | * | H | * | Bz | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00541

Table XXVI-42.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-42-1** | Et | H | H | H | Bz | H | F | H | OH |
| **XXVI-42-2** | Et | H | H | $CH_3$ | Bz | H | F | H | OH |
| **XXVI-42-3** | Et | H | H | $CH(CH_3)_2$ | Bz | H | F | H | OH |
| **XXVI-42-4** | Et | H | H | $CH_2CH(CH_3)_2$ | Bz | H | F | H | OH |
| **XXVI-42-5** | Et | H | H | $CH_2Ph$ | Bz | H | F | H | OH |
| **XXVI-42-6** | Et | H | H | $CH_2$-indol-3-yl | Bz | H | F | H | OH |
| **XXVI-42-7** | Et | H | H | $CH_2CH_2SCH_3$ | Bz | H | F | H | OH |
| **XXVI-42-8** | Et | * | H | * | Bz | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVI-43.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-43-1** | $^i$Pr | H | H | H | Bz | H | F | H | OH |
| **XXVI-43-2** | $^i$Pr | H | H | $CH_3$ | Bz | H | F | H | OH |
| **XXVI-43-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | Bz | H | F | H | OH |
| **XXVI-43-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | Bz | H | F | H | OH |
| **XXVI-43-5** | $^i$Pr | H | H | $CH_2Ph$ | Bz | H | F | H | OH |
| **XXVI-43-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | Bz | H | F | H | OH |
| **XXVI-43-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | Bz | H | F | H | OH |
| **XXVI-43-8** | $^i$Pr | * | H | * | Bz | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVI-44.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-44-1** | $^t$Bu | H | H | H | Bz | H | F | H | OH |
| **XXVI-44-2** | $^t$Bu | H | H | $CH_3$ | Bz | H | F | H | OH |
| **XXVI-44-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | Bz | H | F | H | OH |
| **XXVI-44-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | Bz | H | F | H | OH |
| **XXVI-44-5** | $^t$Bu | H | H | $CH_2Ph$ | Bz | H | F | H | OH |
| **XXVI-44-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | Bz | H | F | H | OH |
| **XXVI-44-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | Bz | H | F | H | OH |
| **XXVI-44-8** | $^t$Bu | * | H | * | Bz | H | F | H | OH |



Gilead Exhibit 2024
PGR2023-00046 - Page 00542

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVI-45.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-45-1** | Ph | H | H | H | Bz | H | F | H | OH |
| **XXVI-45-2** | Ph | H | H | $CH_3$ | Bz | H | F | H | OH |
| **XXVI-45-3** | Ph | H | H | $CH(CH_3)_2$ | Bz | H | F | H | OH |
| **XXVI-45-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | H | F | H | OH |
| **XXVI-45-5** | Ph | H | H | $CH_2Ph$ | Bz | H | F | H | OH |
| **XXVI-45-6** | Ph | H | H | $CH_2$-indol-3-yl | Bz | H | F | H | OH |
| **XXVI-45-7** | Ph | H | H | $CH_2CH_2SCH_3$ | Bz | H | F | H | OH |
| **XXVI-45-8** | Ph | * | H | * | Bz | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVI-46.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-46-1** | p-Me-Ph | H | H | H | Bz | H | F | H | OH |
| **XXVI-46-2** | p-Me-Ph | H | H | $CH_3$ | Bz | H | F | H | OH |
| **XXVI-46-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | Bz | H | F | H | OH |
| **XXVI-46-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | H | F | H | OH |
| **XXVI-46-5** | p-Me-Ph | H | H | $CH_2Ph$ | Bz | H | F | H | OH |
| **XXVI-46-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | Bz | H | F | H | OH |
| **XXVI-46-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | H | F | H | OH |
| **XXVI-46-8** | p-Me-Ph | * | H | * | Bz | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVI-47.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-47-1** | p-F-Ph | H | H | H | Bz | H | F | H | OH |
| **XXVI-47-2** | p-F-Ph | H | H | $CH_3$ | Bz | H | F | H | OH |
| **XXVI-47-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | Bz | H | F | H | OH |
| **XXVI-47-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | H | F | H | OH |
| **XXVI-47-5** | p-F-Ph | H | H | $CH_2Ph$ | Bz | H | F | H | OH |
| **XXVI-47-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | Bz | H | F | H | OH |
| **XXVI-47-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | H | F | H | OH |



Gilead Exhibit 2024
PGR2023-00046 - Page 00543

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-47-8** | p-F-Ph | * | H | * | Bz | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVI-48.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-48-1** | p-Cl-Ph | H | H | H | Bz | H | F | H | OH |
| **XXVI-48-2** | p-Cl-Ph | H | H | $CH_3$ | Bz | H | F | H | OH |
| **XXVI-48-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | Bz | H | F | H | OH |
| **XXVI-48-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | H | F | H | OH |
| **XXVI-48-5** | p-Cl-Ph | H | H | $CH_2Ph$ | Bz | H | F | H | OH |
| **XXVI-48-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | Bz | H | F | H | OH |
| **XXVI-48-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | H | F | H | OH |
| **XXVI-48-8** | p-Cl-Ph | * | H | * | Bz | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVI-49.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-49-1** | p-Br-Ph | H | H | H | Bz | H | F | H | OH |
| **XXVI-49-2** | p-Br-Ph | H | H | $CH_3$ | Bz | H | F | H | OH |
| **XXVI-49-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | Bz | H | F | H | OH |
| **XXVI-49-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | H | F | H | OH |
| **XXVI-49-5** | p-Br-Ph | H | H | $CH_2Ph$ | Bz | H | F | H | OH |
| **XXVI-49-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | Bz | H | F | H | OH |
| **XXVI-49-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | H | F | H | OH |
| **XXVI-49-8** | p-Br-Ph | * | H | * | Bz | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVI-50.

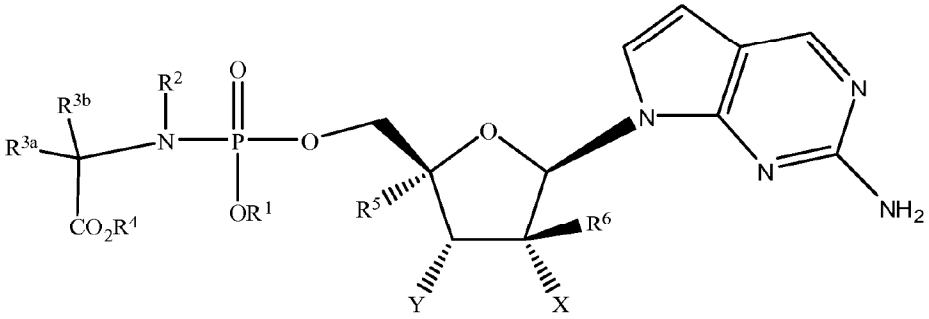
| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-50-1** | p-I-Ph | H | H | H | Bz | H | F | H | OH |
| **XXVI-50-2** | p-I-Ph | H | H | $CH_3$ | Bz | H | F | H | OH |
| **XXVI-50-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | Bz | H | F | H | OH |
| **XXVI-50-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | H | F | H | OH |
| **XXVI-50-5** | p-I-Ph | H | H | $CH_2Ph$ | Bz | H | F | H | OH |



Gilead Exhibit 2024
PGR2023-00046 - Page 00544

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVI-50-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | Bz | H | F | H | OH |
| **XXVI-50-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | H | F | H | OH |
| **XXVI-50-8** | p-I-Ph | * | H | * | Bz | H | F | H | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



**XXVII**

Table XXVII-1.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-1-1** | $CH_3$ | H | H | H | $CH_3$ | H | F | F | OH |
| **XXVII-1-2** | $CH_3$ | H | H | $CH_3$ | $CH_3$ | H | F | F | OH |
| **XXVII-1-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $CH_3$ | H | F | F | OH |
| **XXVII-1-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | F | F | OH |
| **XXVII-1-5** | $CH_3$ | H | H | $CH_2Ph$ | $CH_3$ | H | F | F | OH |
| **XXVII-1-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | F | F | OH |
| **XXVII-1-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | F | F | OH |
| **XXVII-1-8** | $CH_3$ | * | H | * | $CH_3$ | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVII-2.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-2-1** | Et | H | H | H | $CH_3$ | H | F | F | OH |
| **XXVII-2-2** | Et | H | H | $CH_3$ | $CH_3$ | H | F | F | OH |
| **XXVII-2-3** | Et | H | H | $CH(CH_3)_2$ | $CH_3$ | H | F | F | OH |
| **XXVII-2-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | F | F | OH |



Gilead Exhibit 2024
PGR2023-00046 - Page 00545

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-2-5** | Et | H | H | $CH_2Ph$ | $CH_3$ | H | F | F | OH |
| **XXVII-2-6** | Et | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | F | F | OH |
| **XXVII-2-7** | Et | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | F | F | OH |
| **XXVII-2-8** | Et | * | H | * | $CH_3$ | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVII-3.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-3-1** | $^i$Pr | H | H | H | $CH_3$ | H | F | F | OH |
| **XXVII-3-2** | $^i$Pr | H | H | $CH_3$ | $CH_3$ | H | F | F | OH |
| **XXVII-3-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $CH_3$ | H | F | F | OH |
| **XXVII-3-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | F | F | OH |
| **XXVII-3-5** | $^i$Pr | H | H | $CH_2Ph$ | $CH_3$ | H | F | F | OH |
| **XXVII-3-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | F | F | OH |
| **XXVII-3-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | F | F | OH |
| **XXVII-3-8** | $^i$Pr | * | H | * | $CH_3$ | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVII-4.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-4-1** | $^t$Bu | H | H | H | $CH_3$ | H | F | F | OH |
| **XXVII-4-2** | $^t$Bu | H | H | $CH_3$ | $CH_3$ | H | F | F | OH |
| **XXVII-4-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $CH_3$ | H | F | F | OH |
| **XXVII-4-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | F | F | OH |
| **XXVII-4-5** | $^t$Bu | H | H | $CH_2Ph$ | $CH_3$ | H | F | F | OH |
| **XXVII-4-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | F | F | OH |
| **XXVII-4-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | F | F | OH |
| **XXVII-4-8** | $^t$Bu | * | H | * | $CH_3$ | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVII-5.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-5-1** | Ph | H | H | H | $CH_3$ | H | F | F | OH |
| **XXVII-5-2** | Ph | H | H | $CH_3$ | $CH_3$ | H | F | F | OH |



Gilead Exhibit 2024
PGR2023-00046 - Page 00546

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-5-3** | Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | F | F | OH |
| **XXVII-5-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | F | F | OH |
| **XXVII-5-5** | Ph | H | H | $CH_2Ph$ | $CH_3$ | H | F | F | OH |
| **XXVII-5-6** | Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | F | F | OH |
| **XXVII-5-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | F | F | OH |
| **XXVII-5-8** | Ph | * | H | * | $CH_3$ | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVII-6.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-6-1** | p-Me-Ph | H | H | H | $CH_3$ | H | F | F | OH |
| **XXVII-6-2** | p-Me-Ph | H | H | $CH_3$ | $CH_3$ | H | F | F | OH |
| **XXVII-6-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | F | F | OH |
| **XXVII-6-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | F | F | OH |
| **XXVII-6-5** | p-Me-Ph | H | H | $CH_2Ph$ | $CH_3$ | H | F | F | OH |
| **XXVII-6-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | F | F | OH |
| **XXVII-6-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | F | F | OH |
| **XXVII-6-8** | p-Me-Ph | * | H | * | $CH_3$ | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVII-7.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-7-1** | p-F-Ph | H | H | H | $CH_3$ | H | F | F | OH |
| **XXVII-7-2** | p-F-Ph | H | H | $CH_3$ | $CH_3$ | H | F | F | OH |
| **XXVII-7-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | F | F | OH |
| **XXVII-7-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | F | F | OH |
| **XXVII-7-6** | p-F-Ph | H | H | $CH_2Ph$ | $CH_3$ | H | F | F | OH |
| **XXVII-7-7** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | F | F | OH |
| **XXVII-7-8** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | F | F | OH |
| **XXVII-7-20** | p-F-Ph | * | H | * | $CH_3$ | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVII-8.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-8-1** | p-Cl-Ph | H | H | H | $CH_3$ | H | F | F | OH |
| **XXVII-8-2** | p-Cl-Ph | H | H | $CH_3$ | $CH_3$ | H | F | F | OH |
| **XXVII-8-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | F | F | OH |
| **XXVII-8-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | F | F | OH |
| **XXVII-8-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $CH_3$ | H | F | F | OH |
| **XXVII-8-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | F | F | OH |
| **XXVII-8-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | F | F | OH |
| **XXVII-8-8** | p-Cl-Ph | * | H | * | $CH_3$ | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVII-9.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-9-1** | p-Br-Ph | H | H | H | $CH_3$ | H | F | F | OH |
| **XXVII-9-2** | p-Br-Ph | H | H | $CH_3$ | $CH_3$ | H | F | F | OH |
| **XXVII-9-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | F | F | OH |
| **XXVII-9-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | F | F | OH |
| **XXVII-9-6** | p-Br-Ph | H | H | $CH_2Ph$ | $CH_3$ | H | F | F | OH |
| **XXVII-9-7** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | F | F | OH |
| **XXVII-9-8** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | F | F | OH |
| **XXVII-9-20** | p-Br-Ph | * | H | * | $CH_3$ | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVII-10.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-10-1** | p-I-Ph | H | H | H | $CH_3$ | H | F | F | OH |
| **XXVII-10-2** | p-I-Ph | H | H | $CH_3$ | $CH_3$ | H | F | F | OH |
| **XXVII-10-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | F | F | OH |
| **XXVII-10-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | F | F | OH |
| **XXVII-10-5** | p-I-Ph | H | H | $CH_2Ph$ | $CH_3$ | H | F | F | OH |
| **XXVII-10-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | F | F | OH |
| **XXVII-10-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | F | F | OH |
| **XXVII-10-8** | p-I-Ph | * | H | * | $CH_3$ | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00548

Table XXVII-11.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-11-1** | $CH_3$ | H | H | H | Et | H | F | F | OH |
| **XXVII-11-2** | $CH_3$ | H | H | $CH_3$ | Et | H | F | F | OH |
| **XXVII-11-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | Et | H | F | F | OH |
| **XXVII-11-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | Et | H | F | F | OH |
| **XXVII-11-5** | $CH_3$ | H | H | $CH_2Ph$ | Et | H | F | F | OH |
| **XXVII-11-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | Et | H | F | F | OH |
| **XXVII-11-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | Et | H | F | F | OH |
| **XXVII-11-8** | $CH_3$ | * | H | * | Et | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVII-12.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-12-1** | Et | H | H | H | Et | H | F | F | OH |
| **XXVII-12-2** | Et | H | H | $CH_3$ | Et | H | F | F | OH |
| **XXVII-12-3** | Et | H | H | $CH(CH_3)_2$ | Et | H | F | F | OH |
| **XXVII-12-4** | Et | H | H | $CH_2CH(CH_3)_2$ | Et | H | F | F | OH |
| **XXVII-12-5** | Et | H | H | $CH_2Ph$ | Et | H | F | F | OH |
| **XXVII-12-6** | Et | H | H | $CH_2$-indol-3-yl | Et | H | F | F | OH |
| **XXVII-12-7** | Et | H | H | $CH_2CH_2SCH_3$ | Et | H | F | F | OH |
| **XXVII-12-8** | Et | * | H | * | Et | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVII-13.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-13-1** | $^i$Pr | H | H | H | Et | H | F | F | OH |
| **XXVII-13-2** | $^i$Pr | H | H | $CH_3$ | Et | H | F | F | OH |
| **XXVII-13-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | Et | H | F | F | OH |
| **XXVII-13-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | Et | H | F | F | OH |
| **XXVII-13-5** | $^i$Pr | H | H | $CH_2Ph$ | Et | H | F | F | OH |
| **XXVII-13-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | Et | H | F | F | OH |
| **XXVII-13-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | Et | H | F | F | OH |
| **XXVII-13-8** | $^i$Pr | * | H | * | Et | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00549

Table XXVII-14.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-14-1** | $^t$Bu | H | H | H | Et | H | F | F | OH |
| **XXVII-14-2** | $^t$Bu | H | H | $CH_3$ | Et | H | F | F | OH |
| **XXVII-14-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | Et | H | F | F | OH |
| **XXVII-14-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | Et | H | F | F | OH |
| **XXVII-14-5** | $^t$Bu | H | H | $CH_2Ph$ | Et | H | F | F | OH |
| **XXVII-14-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | Et | H | F | F | OH |
| **XXVII-14-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | Et | H | F | F | OH |
| **XXVII-14-8** | $^t$Bu | * | H | * | Et | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVII-15.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-15-1** | Ph | H | H | H | Et | H | F | F | OH |
| **XXVII-15-2** | Ph | H | H | $CH_3$ | Et | H | F | F | OH |
| **XXVII-15-3** | Ph | H | H | $CH(CH_3)_2$ | Et | H | F | F | OH |
| **XXVII-15-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | F | F | OH |
| **XXVII-15-5** | Ph | H | H | $CH_2Ph$ | Et | H | F | F | OH |
| **XXVII-15-6** | Ph | H | H | $CH_2$-indol-3-yl | Et | H | F | F | OH |
| **XXVII-15-7** | Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | F | F | OH |
| **XXVII-15-8** | Ph | * | H | * | Et | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVII-16.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-16-1** | p-Me-Ph | H | H | H | Et | H | F | F | OH |
| **XXVII-16-2** | p-Me-Ph | H | H | $CH_3$ | Et | H | F | F | OH |
| **XXVII-16-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | Et | H | F | F | OH |
| **XXVII-16-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | F | F | OH |
| **XXVII-16-5** | p-Me-Ph | H | H | $CH_2Ph$ | Et | H | F | F | OH |
| **XXVII-16-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | Et | H | F | F | OH |
| **XXVII-16-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | F | F | OH |
| **XXVII-16-8** | p-Me-Ph | * | H | * | Et | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVII-17.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-17-1** | p-F-Ph | H | H | H | Et | H | F | F | OH |
| **XXVII-17-2** | p-F-Ph | H | H | $CH_3$ | Et | H | F | F | OH |
| **XXVII-17-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | Et | H | F | F | OH |
| **XXVII-17-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | F | F | OH |
| **XXVII-17-5** | p-F-Ph | H | H | $CH_2Ph$ | Et | H | F | F | OH |
| **XXVII-17-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | Et | H | F | F | OH |
| **XXVII-17-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | F | F | OH |
| **XXVII-17-8** | p-F-Ph | * | H | * | Et | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVII-18.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-18-1** | p-Cl-Ph | H | H | H | Et | H | F | F | OH |
| **XXVII-18-2** | p-Cl-Ph | H | H | $CH_3$ | Et | H | F | F | OH |
| **XXVII-18-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | Et | H | F | F | OH |
| **XXVII-18-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | F | F | OH |
| **XXVII-18-5** | p-Cl-Ph | H | H | $CH_2Ph$ | Et | H | F | F | OH |
| **XXVII-18-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | Et | H | F | F | OH |
| **XXVII-18-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | F | F | OH |
| **XXVII-18-8** | p-Cl-Ph | * | H | * | Et | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVII-19.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-19-1** | p-Br-Ph | H | H | H | Et | H | F | F | OH |
| **XXVII-19-2** | p-Br-Ph | H | H | $CH_3$ | Et | H | F | F | OH |
| **XXVII-19-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | Et | H | F | F | OH |
| **XXVII-19-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | F | F | OH |
| **XXVII-19-5** | p-Br-Ph | H | H | $CH_2Ph$ | Et | H | F | F | OH |
| **XXVII-19-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | Et | H | F | F | OH |
| **XXVII-19-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | F | F | OH |
| **XXVII-19-8** | p-Br-Ph | * | H | * | Et | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVII-20.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-20-1** | p-I-Ph | H | H | H | Et | H | F | F | OH |
| **XXVII-20-2** | p-I-Ph | H | H | $CH_3$ | Et | H | F | F | OH |
| **XXVII-20-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | Et | H | F | F | OH |
| **XXVII-20-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | F | F | OH |
| **XXVII-20-5** | p-I-Ph | H | H | $CH_2Ph$ | Et | H | F | F | OH |
| **XXVII-20-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | Et | H | F | F | OH |
| **XXVII-20-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | F | F | OH |
| **XXVII-20-8** | p-I-Ph | * | H | * | Et | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVII-21.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-21-1** | $CH_3$ | H | H | H | $^i$Pr | H | F | F | OH |
| **XXVII-21-2** | $CH_3$ | H | H | $CH_3$ | $^i$Pr | H | F | F | OH |
| **XXVII-21-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $^i$Pr | H | F | F | OH |
| **XXVII-21-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | F | F | OH |
| **XXVII-21-5** | $CH_3$ | H | H | $CH_2Ph$ | $^i$Pr | H | F | F | OH |
| **XXVII-21-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | F | F | OH |
| **XXVII-21-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | F | F | OH |
| **XXVII-21-8** | $CH_3$ | * | H | * | $^i$Pr | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVII-22.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-22-1** | Et | H | H | H | $^i$Pr | H | F | F | OH |
| **XXVII-22-2** | Et | H | H | $CH_3$ | $^i$Pr | H | F | F | OH |
| **XXVII-22-3** | Et | H | H | $CH(CH_3)_2$ | $^i$Pr | H | F | F | OH |
| **XXVII-22-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | F | F | OH |
| **XXVII-22-5** | Et | H | H | $CH_2Ph$ | $^i$Pr | H | F | F | OH |
| **XXVII-22-6** | Et | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | F | F | OH |
| **XXVII-22-7** | Et | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | F | F | OH |
| **XXVII-22-8** | Et | * | H | * | $^i$Pr | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00552

Table XXVII-23.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-23-1** | $^i$Pr | H | H | H | $^i$Pr | H | F | F | OH |
| **XXVII-23-2** | $^i$Pr | H | H | $CH_3$ | $^i$Pr | H | F | F | OH |
| **XXVII-23-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $^i$Pr | H | F | F | OH |
| **XXVII-23-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | F | F | OH |
| **XXVII-23-5** | $^i$Pr | H | H | $CH_2Ph$ | $^i$Pr | H | F | F | OH |
| **XXVII-23-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | F | F | OH |
| **XXVII-23-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | F | F | OH |
| **XXVII-23-8** | $^i$Pr | * | H | * | $^i$Pr | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVII-24.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-24-1** | $^t$Bu | H | H | H | $^i$Pr | H | F | F | OH |
| **XXVII-24-2** | $^t$Bu | H | H | $CH_3$ | $^i$Pr | H | F | F | OH |
| **XXVII-24-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $^i$Pr | H | F | F | OH |
| **XXVII-24-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | F | F | OH |
| **XXVII-24-5** | $^t$Bu | H | H | $CH_2Ph$ | $^i$Pr | H | F | F | OH |
| **XXVII-24-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | F | F | OH |
| **XXVII-24-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | F | F | OH |
| **XXVII-24-8** | $^t$Bu | * | H | * | $^i$Pr | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVII-25.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-25-1** | Ph | H | H | H | $^i$Pr | H | F | F | OH |
| **XXVII-25-2** | Ph | H | H | $CH_3$ | $^i$Pr | H | F | F | OH |
| **XXVII-25-3** | Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | F | F | OH |
| **XXVII-25-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | F | F | OH |
| **XXVII-25-5** | Ph | H | H | $CH_2Ph$ | $^i$Pr | H | F | F | OH |
| **XXVII-25-6** | Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | F | F | OH |
| **XXVII-25-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | F | F | OH |
| **XXVII-25-8** | Ph | * | H | * | $^i$Pr | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00553

Table XXVII-26.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-26-1** | p-Me-Ph | H | H | H | $^i$Pr | H | F | F | OH |
| **XXVII-26-2** | p-Me-Ph | H | H | $CH_3$ | $^i$Pr | H | F | F | OH |
| **XXVII-26-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | F | F | OH |
| **XXVII-26-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | F | F | OH |
| **XXVII-26-5** | p-Me-Ph | H | H | $CH_2Ph$ | $^i$Pr | H | F | F | OH |
| **XXVII-26-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | F | F | OH |
| **XXVII-26-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | F | F | OH |
| **XXVII-26-8** | p-Me-Ph | * | H | * | $^i$Pr | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVII-27.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-27-1** | p-F-Ph | H | H | H | $^i$Pr | H | F | F | OH |
| **XXVII-27-2** | p-F-Ph | H | H | $CH_3$ | $^i$Pr | H | F | F | OH |
| **XXVII-27-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | F | F | OH |
| **XXVII-27-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | F | F | OH |
| **XXVII-27-5** | p-F-Ph | H | H | $CH_2Ph$ | $^i$Pr | H | F | F | OH |
| **XXVII-27-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | F | F | OH |
| **XXVII-27-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | F | F | OH |
| **XXVII-27-8** | p-F-Ph | * | H | * | $^i$Pr | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVII-28.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-28-1** | p-Cl-Ph | H | H | H | $^i$Pr | H | F | F | OH |
| **XXVII-28-2** | p-Cl-Ph | H | H | $CH_3$ | $^i$Pr | H | F | F | OH |
| **XXVII-28-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | F | F | OH |
| **XXVII-28-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | F | F | OH |
| **XXVII-28-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $^i$Pr | H | F | F | OH |
| **XXVII-28-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | F | F | OH |
| **XXVII-28-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | F | F | OH |
| **XXVII-28-8** | p-Cl-Ph | * | H | * | $^i$Pr | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00554

Table XXVII-29.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-29-1** | p-Br-Ph | H | H | H | $^i$Pr | H | F | F | OH |
| **XXVII-29-2** | p-Br-Ph | H | H | $CH_3$ | $^i$Pr | H | F | F | OH |
| **XXVII-29-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | F | F | OH |
| **XXVII-29-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | F | F | OH |
| **XXVII-29-5** | p-Br-Ph | H | H | $CH_2Ph$ | $^i$Pr | H | F | F | OH |
| **XXVII-29-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | F | F | OH |
| **XXVII-29-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | F | F | OH |
| **XXVII-29-8** | p-Br-Ph | * | H | * | $^i$Pr | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVII-30.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-30-1** | p-I-Ph | H | H | H | $^i$Pr | H | F | F | OH |
| **XXVII-30-2** | p-I-Ph | H | H | $CH_3$ | $^i$Pr | H | F | F | OH |
| **XXVII-30-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | F | F | OH |
| **XXVII-30-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | F | F | OH |
| **XXVII-30-5** | p-I-Ph | H | H | $CH_2Ph$ | $^i$Pr | H | F | F | OH |
| **XXVII-30-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | F | F | OH |
| **XXVII-30-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | F | F | OH |
| **XXVII-30-8** | p-I-Ph | * | H | * | $^i$Pr | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVII-31.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-31-1** | $CH_3$ | H | H | H | $^n$Bu | H | F | F | OH |
| **XXVII-31-2** | $CH_3$ | H | H | $CH_3$ | $^n$Bu | H | F | F | OH |
| **XXVII-31-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $^n$Bu | H | F | F | OH |
| **XXVII-31-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | F | F | OH |
| **XXVII-31-5** | $CH_3$ | H | H | $CH_2Ph$ | $^n$Bu | H | F | F | OH |
| **XXVII-31-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | F | F | OH |
| **XXVII-31-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | F | F | OH |
| **XXVII-31-8** | $CH_3$ | * | H | * | $^n$Bu | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00555

Table XXVII-32.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-32-1** | Et | H | H | H | $^n$Bu | H | F | F | OH |
| **XXVII-32-2** | Et | H | H | $CH_3$ | $^n$Bu | H | F | F | OH |
| **XXVII-32-3** | Et | H | H | $CH(CH_3)_2$ | $^n$Bu | H | F | F | OH |
| **XXVII-32-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | F | F | OH |
| **XXVII-32-5** | Et | H | H | $CH_2Ph$ | $^n$Bu | H | F | F | OH |
| **XXVII-32-6** | Et | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | F | F | OH |
| **XXVII-32-7** | Et | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | F | F | OH |
| **XXVII-32-8** | Et | * | H | * | $^n$Bu | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVII-33.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-33-1** | $^i$Pr | H | H | H | $^n$Bu | H | F | F | OH |
| **XXVII-33-2** | $^i$Pr | H | H | $CH_3$ | $^n$Bu | H | F | F | OH |
| **XXVII-33-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $^n$Bu | H | F | F | OH |
| **XXVII-33-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | F | F | OH |
| **XXVII-33-5** | $^i$Pr | H | H | $CH_2Ph$ | $^n$Bu | H | F | F | OH |
| **XXVII-33-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | F | F | OH |
| **XXVII-33-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | F | F | OH |
| **XXVII-33-8** | $^i$Pr | * | H | * | $^n$Bu | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVII-34.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-34-1** | $^t$Bu | H | H | H | $^n$Bu | H | F | F | OH |
| **XXVII-34-2** | $^t$Bu | H | H | $CH_3$ | $^n$Bu | H | F | F | OH |
| **XXVII-34-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $^n$Bu | H | F | F | OH |
| **XXVII-34-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | F | F | OH |
| **XXVII-34-5** | $^t$Bu | H | H | $CH_2Ph$ | $^n$Bu | H | F | F | OH |
| **XXVII-34-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | F | F | OH |
| **XXVII-34-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | F | F | OH |
| **XXVII-34-8** | $^t$Bu | * | H | * | $^n$Bu | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00556

Table XXVII-35.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-35-1** | Ph | H | H | H | $^n$Bu | H | F | F | OH |
| **XXVII-35-2** | Ph | H | H | $CH_3$ | $^n$Bu | H | F | F | OH |
| **XXVII-35-3** | Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | H | F | F | OH |
| **XXVII-35-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | F | F | OH |
| **XXVII-35-5** | Ph | H | H | $CH_2Ph$ | $^n$Bu | H | F | F | OH |
| **XXVII-35-6** | Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | F | F | OH |
| **XXVII-35-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | F | F | OH |
| **XXVII-35-8** | Ph | * | H | * | $^n$Bu | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVII-36.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-36-1** | p-Me-Ph | H | H | H | $^n$Bu | H | F | F | OH |
| **XXVII-36-2** | p-Me-Ph | H | H | $CH_3$ | $^n$Bu | H | F | F | OH |
| **XXVII-36-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | H | F | F | OH |
| **XXVII-36-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | F | F | OH |
| **XXVII-36-5** | p-Me-Ph | H | H | $CH_2Ph$ | $^n$Bu | H | F | F | OH |
| **XXVII-36-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | F | F | OH |
| **XXVII-36-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | F | F | OH |
| **XXVII-36-8** | p-Me-Ph | * | H | * | $^n$Bu | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVII-37.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-37-1** | p-F-Ph | H | H | H | $^n$Bu | H | F | F | OH |
| **XXVII-37-2** | p-F-Ph | H | H | $CH_3$ | $^n$Bu | H | F | F | OH |
| **XXVII-37-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | H | F | F | OH |
| **XXVII-37-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | F | F | OH |
| **XXVII-37-5** | p-F-Ph | H | H | $CH_2Ph$ | $^n$Bu | H | F | F | OH |
| **XXVII-37-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | F | F | OH |
| **XXVII-37-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | F | F | OH |
| **XXVII-37-8** | p-F-Ph | * | H | * | $^n$Bu | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00557

Table XXVII-38.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-38-1** | p-Cl-Ph | H | H | H | $^n$Bu | H | F | F | OH |
| **XXVII-38-2** | p-Cl-Ph | H | H | $CH_3$ | $^n$Bu | H | F | F | OH |
| **XXVII-38-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | H | F | F | OH |
| **XXVII-38-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | F | F | OH |
| **XXVII-38-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $^n$Bu | H | F | F | OH |
| **XXVII-38-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | F | F | OH |
| **XXVII-38-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | F | F | OH |
| **XXVII-38-8** | p-Cl-Ph | * | H | * | $^n$Bu | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVII-39.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-39-1** | p-Br-Ph | H | H | H | $^n$Bu | H | F | F | OH |
| **XXVII-39-2** | p-Br-Ph | H | H | $CH_3$ | $^n$Bu | H | F | F | OH |
| **XXVII-39-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | H | F | F | OH |
| **XXVII-39-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | F | F | OH |
| **XXVII-39-5** | p-Br-Ph | H | H | $CH_2Ph$ | $^n$Bu | H | F | F | OH |
| **XXVII-39-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | F | F | OH |
| **XXVII-39-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | F | F | OH |
| **XXVII-39-8** | p-Br-Ph | * | H | * | $^n$Bu | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVII-40.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-40-1** | p-I-Ph | H | H | H | $^n$Bu | H | F | F | OH |
| **XXVII-40-2** | p-I-Ph | H | H | $CH_3$ | $^n$Bu | H | F | F | OH |
| **XXVII-40-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | H | F | F | OH |
| **XXVII-40-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | F | F | OH |
| **XXVII-40-5** | p-I-Ph | H | H | $CH_2Ph$ | $^n$Bu | H | F | F | OH |
| **XXVII-40-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | F | F | OH |
| **XXVII-40-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | F | F | OH |
| **XXVII-40-8** | p-I-Ph | * | H | * | $^n$Bu | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00558

Table XXVII-41.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-41-1** | $CH_3$ | H | H | H | Bz | H | F | F | OH |
| **XXVII-41-2** | $CH_3$ | H | H | $CH_3$ | Bz | H | F | F | OH |
| **XXVII-41-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | Bz | H | F | F | OH |
| **XXVII-41-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | Bz | H | F | F | OH |
| **XXVII-41-5** | $CH_3$ | H | H | $CH_2Ph$ | Bz | H | F | F | OH |
| **XXVII-41-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | Bz | H | F | F | OH |
| **XXVII-41-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | Bz | H | F | F | OH |
| **XXVII-41-8** | $CH_3$ | * | H | * | Bz | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVII-42.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-42-1** | Et | H | H | H | Bz | H | F | F | OH |
| **XXVII-42-2** | Et | H | H | $CH_3$ | Bz | H | F | F | OH |
| **XXVII-42-3** | Et | H | H | $CH(CH_3)_2$ | Bz | H | F | F | OH |
| **XXVII-42-4** | Et | H | H | $CH_2CH(CH_3)_2$ | Bz | H | F | F | OH |
| **XXVII-42-5** | Et | H | H | $CH_2Ph$ | Bz | H | F | F | OH |
| **XXVII-42-6** | Et | H | H | $CH_2$-indol-3-yl | Bz | H | F | F | OH |
| **XXVII-42-7** | Et | H | H | $CH_2CH_2SCH_3$ | Bz | H | F | F | OH |
| **XXVII-42-8** | Et | * | H | * | Bz | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVII-43.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-43-1** | $^i$Pr | H | H | H | Bz | H | F | F | OH |
| **XXVII-43-2** | $^i$Pr | H | H | $CH_3$ | Bz | H | F | F | OH |
| **XXVII-43-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | Bz | H | F | F | OH |
| **XXVII-43-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | Bz | H | F | F | OH |
| **XXVII-43-5** | $^i$Pr | H | H | $CH_2Ph$ | Bz | H | F | F | OH |
| **XXVII-43-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | Bz | H | F | F | OH |
| **XXVII-43-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | Bz | H | F | F | OH |
| **XXVII-43-8** | $^i$Pr | * | H | * | Bz | H | F | F | OH |



Gilead Exhibit 2024
PGR2023-00046 - Page 00559

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVII-44.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-44-1** | $^t$Bu | H | H | H | Bz | H | F | F | OH |
| **XXVII-44-2** | $^t$Bu | H | H | $CH_3$ | Bz | H | F | F | OH |
| **XXVII-44-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | Bz | H | F | F | OH |
| **XXVII-44-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | Bz | H | F | F | OH |
| **XXVII-44-5** | $^t$Bu | H | H | $CH_2Ph$ | Bz | H | F | F | OH |
| **XXVII-44-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | Bz | H | F | F | OH |
| **XXVII-44-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | Bz | H | F | F | OH |
| **XXVII-44-8** | $^t$Bu | * | H | * | Bz | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVII-45.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-45-1** | Ph | H | H | H | Bz | H | F | F | OH |
| **XXVII-45-2** | Ph | H | H | $CH_3$ | Bz | H | F | F | OH |
| **XXVII-45-3** | Ph | H | H | $CH(CH_3)_2$ | Bz | H | F | F | OH |
| **XXVII-45-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | H | F | F | OH |
| **XXVII-45-5** | Ph | H | H | $CH_2Ph$ | Bz | H | F | F | OH |
| **XXVII-45-6** | Ph | H | H | $CH_2$-indol-3-yl | Bz | H | F | F | OH |
| **XXVII-45-7** | Ph | H | H | $CH_2CH_2SCH_3$ | Bz | H | F | F | OH |
| **XXVII-45-8** | Ph | * | H | * | Bz | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVII-46.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-46-1** | p-Me-Ph | H | H | H | Bz | H | F | F | OH |
| **XXVII-46-2** | p-Me-Ph | H | H | $CH_3$ | Bz | H | F | F | OH |
| **XXVII-46-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | Bz | H | F | F | OH |
| **XXVII-46-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | H | F | F | OH |
| **XXVII-46-5** | p-Me-Ph | H | H | $CH_2Ph$ | Bz | H | F | F | OH |
| **XXVII-46-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | Bz | H | F | F | OH |
| **XXVII-46-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | H | F | F | OH |



Gilead Exhibit 2024
PGR2023-00046 - Page 00560

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-46-8** | p-Me-Ph | * | H | * | Bz | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVII-47.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-47-1** | p-F-Ph | H | H | H | Bz | H | F | F | OH |
| **XXVII-47-2** | p-F-Ph | H | H | $CH_3$ | Bz | H | F | F | OH |
| **XXVII-47-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | Bz | H | F | F | OH |
| **XXVII-47-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | H | F | F | OH |
| **XXVII-47-5** | p-F-Ph | H | H | $CH_2Ph$ | Bz | H | F | F | OH |
| **XXVII-47-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | Bz | H | F | F | OH |
| **XXVII-47-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | H | F | F | OH |
| **XXVII-47-8** | p-F-Ph | * | H | * | Bz | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVII-48.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-48-1** | p-Cl-Ph | H | H | H | Bz | H | F | F | OH |
| **XXVII-48-2** | p-Cl-Ph | H | H | $CH_3$ | Bz | H | F | F | OH |
| **XXVII-48-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | Bz | H | F | F | OH |
| **XXVII-48-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | H | F | F | OH |
| **XXVII-48-5** | p-Cl-Ph | H | H | $CH_2Ph$ | Bz | H | F | F | OH |
| **XXVII-48-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | Bz | H | F | F | OH |
| **XXVII-48-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | H | F | F | OH |
| **XXVII-48-8** | p-Cl-Ph | * | H | * | Bz | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVII-49.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-49-1** | p-Br-Ph | H | H | H | Bz | H | F | F | OH |
| **XXVII-49-2** | p-Br-Ph | H | H | $CH_3$ | Bz | H | F | F | OH |
| **XXVII-49-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | Bz | H | F | F | OH |
| **XXVII-49-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | H | F | F | OH |
| **XXVII-49-5** | p-Br-Ph | H | H | $CH_2Ph$ | Bz | H | F | F | OH |



Gilead Exhibit 2024
PGR2023-00046 - Page 00561

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-49-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | Bz | H | F | F | OH |
| **XXVII-49-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | H | F | F | OH |
| **XXVII-49-8** | p-Br-Ph | * | H | * | Bz | H | F | F | OH |

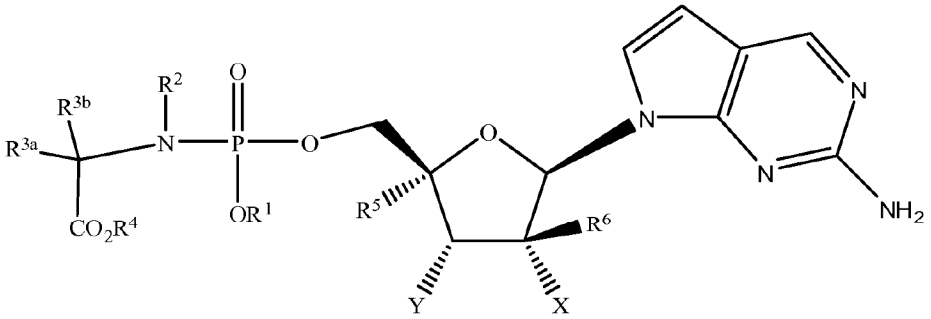
*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVII-50.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVII-50-1** | p-I-Ph | H | H | H | Bz | H | F | F | OH |
| **XXVII-50-2** | p-I-Ph | H | H | $CH_3$ | Bz | H | F | F | OH |
| **XXVII-50-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | Bz | H | F | F | OH |
| **XXVII-50-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | H | F | F | OH |
| **XXVII-50-5** | p-I-Ph | H | H | $CH_2Ph$ | Bz | H | F | F | OH |
| **XXVII-50-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | Bz | H | F | F | OH |
| **XXVII-50-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | H | F | F | OH |
| **XXVII-50-8** | p-I-Ph | * | H | * | Bz | H | F | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

5




**XXVIII**

Table XXVIII-1.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-1-1** | $CH_3$ | H | H | H | $CH_3$ | H | H | F | OH |
| **XXVIII-1-2** | $CH_3$ | H | H | $CH_3$ | $CH_3$ | H | H | F | OH |
| **XXVIII-1-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $CH_3$ | H | H | F | OH |
| **XXVIII-1-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | H | F | OH |



Gilead Exhibit 2024
PGR2023-00046 - Page 00562

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-1-5** | $CH_3$ | H | H | $CH_2Ph$ | $CH_3$ | H | H | F | OH |
| **XXVIII-1-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | H | F | OH |
| **XXVIII-1-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | H | F | OH |
| **XXVIII-1-8** | $CH_3$ | * | H | * | $CH_3$ | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVIII-2.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-2-1** | Et | H | H | H | $CH_3$ | H | H | F | OH |
| **XXVIII-2-2** | Et | H | H | $CH_3$ | $CH_3$ | H | H | F | OH |
| **XXVIII-2-3** | Et | H | H | $CH(CH_3)_2$ | $CH_3$ | H | H | F | OH |
| **XXVIII-2-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | H | F | OH |
| **XXVIII-2-5** | Et | H | H | $CH_2Ph$ | $CH_3$ | H | H | F | OH |
| **XXVIII-2-6** | Et | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | H | F | OH |
| **XXVIII-2-7** | Et | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | H | F | OH |
| **XXVIII-2-8** | Et | * | H | * | $CH_3$ | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVIII-3.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-3-1** | $^i$Pr | H | H | H | $CH_3$ | H | H | F | OH |
| **XXVIII-3-2** | $^i$Pr | H | H | $CH_3$ | $CH_3$ | H | H | F | OH |
| **XXVIII-3-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $CH_3$ | H | H | F | OH |
| **XXVIII-3-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | H | F | OH |
| **XXVIII-3-5** | $^i$Pr | H | H | $CH_2Ph$ | $CH_3$ | H | H | F | OH |
| **XXVIII-3-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | H | F | OH |
| **XXVIII-3-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | H | F | OH |
| **XXVIII-3-8** | $^i$Pr | * | H | * | $CH_3$ | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVIII-4.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-4-1** | $^t$Bu | H | H | H | $CH_3$ | H | H | F | OH |
| **XXVIII-4-2** | $^t$Bu | H | H | $CH_3$ | $CH_3$ | H | H | F | OH |



Gilead Exhibit 2024
PGR2023-00046 - Page 00563

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-4-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $CH_3$ | H | H | F | OH |
| **XXVIII-4-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | H | F | OH |
| **XXVIII-4-5** | $^t$Bu | H | H | $CH_2Ph$ | $CH_3$ | H | H | F | OH |
| **XXVIII-4-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | H | F | OH |
| **XXVIII-4-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | H | F | OH |
| **XXVIII-4-8** | $^t$Bu | * | H | * | $CH_3$ | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVIII-5.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-5-1** | Ph | H | H | H | $CH_3$ | H | H | F | OH |
| **XXVIII-5-2** | Ph | H | H | $CH_3$ | $CH_3$ | H | H | F | OH |
| **XXVIII-5-3** | Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | H | F | OH |
| **XXVIII-5-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | H | F | OH |
| **XXVIII-5-5** | Ph | H | H | $CH_2Ph$ | $CH_3$ | H | H | F | OH |
| **XXVIII-5-6** | Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | H | F | OH |
| **XXVIII-5-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | H | F | OH |
| **XXVIII-5-8** | Ph | * | H | * | $CH_3$ | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVIII-6.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-6-1** | p-Me-Ph | H | H | H | $CH_3$ | H | H | F | OH |
| **XXVIII-6-2** | p-Me-Ph | H | H | $CH_3$ | $CH_3$ | H | H | F | OH |
| **XXVIII-6-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | H | F | OH |
| **XXVIII-6-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | H | F | OH |
| **XXVIII-6-5** | p-Me-Ph | H | H | $CH_2Ph$ | $CH_3$ | H | H | F | OH |
| **XXVIII-6-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | H | F | OH |
| **XXVIII-6-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | H | F | OH |
| **XXVIII-6-8** | p-Me-Ph | * | H | * | $CH_3$ | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVIII-7.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|



Gilead Exhibit 2024
PGR2023-00046 - Page 00564

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-7-1** | p-F-Ph | H | H | H | $CH_3$ | H | H | F | OH |
| **XXVIII-7-2** | p-F-Ph | H | H | $CH_3$ | $CH_3$ | H | H | F | OH |
| **XXVIII-7-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | H | F | OH |
| **XXVIII-7-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | H | F | OH |
| **XXVIII-7-6** | p-F-Ph | H | H | $CH_2Ph$ | $CH_3$ | H | H | F | OH |
| **XXVIII-7-7** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | H | F | OH |
| **XXVIII-7-8** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | H | F | OH |
| **XXVIII-7-20** | p-F-Ph | * | H | * | $CH_3$ | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVIII-8.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-8-1** | p-Cl-Ph | H | H | H | $CH_3$ | H | H | F | OH |
| **XXVIII-8-2** | p-Cl-Ph | H | H | $CH_3$ | $CH_3$ | H | H | F | OH |
| **XXVIII-8-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | H | F | OH |
| **XXVIII-8-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | H | F | OH |
| **XXVIII-8-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $CH_3$ | H | H | F | OH |
| **XXVIII-8-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | H | F | OH |
| **XXVIII-8-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | H | F | OH |
| **XXVIII-8-8** | p-Cl-Ph | * | H | * | $CH_3$ | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVIII-9.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-9-1** | p-Br-Ph | H | H | H | $CH_3$ | H | H | F | OH |
| **XXVIII-9-2** | p-Br-Ph | H | H | $CH_3$ | $CH_3$ | H | H | F | OH |
| **XXVIII-9-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | H | F | OH |
| **XXVIII-9-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | H | F | OH |
| **XXVIII-9-6** | p-Br-Ph | H | H | $CH_2Ph$ | $CH_3$ | H | H | F | OH |
| **XXVIII-9-7** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | H | F | OH |
| **XXVIII-9-8** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | H | F | OH |
| **XXVIII-9-20** | p-Br-Ph | * | H | * | $CH_3$ | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00565

Table XXVIII-10.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-10-1** | p-I-Ph | H | H | H | $CH_3$ | H | H | F | OH |
| **XXVIII-10-2** | p-I-Ph | H | H | $CH_3$ | $CH_3$ | H | H | F | OH |
| **XXVIII-10-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | H | F | OH |
| **XXVIII-10-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | H | F | OH |
| **XXVIII-10-5** | p-I-Ph | H | H | $CH_2Ph$ | $CH_3$ | H | H | F | OH |
| **XXVIII-10-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | H | F | OH |
| **XXVIII-10-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | H | F | OH |
| **XXVIII-10-8** | p-I-Ph | * | H | * | $CH_3$ | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVIII-11.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-11-1** | $CH_3$ | H | H | H | Et | H | H | F | OH |
| **XXVIII-11-2** | $CH_3$ | H | H | $CH_3$ | Et | H | H | F | OH |
| **XXVIII-11-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | Et | H | H | F | OH |
| **XXVIII-11-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | Et | H | H | F | OH |
| **XXVIII-11-5** | $CH_3$ | H | H | $CH_2Ph$ | Et | H | H | F | OH |
| **XXVIII-11-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | Et | H | H | F | OH |
| **XXVIII-11-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | Et | H | H | F | OH |
| **XXVIII-11-8** | $CH_3$ | * | H | * | Et | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVIII-12.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-12-1** | Et | H | H | H | Et | H | H | F | OH |
| **XXVIII-12-2** | Et | H | H | $CH_3$ | Et | H | H | F | OH |
| **XXVIII-12-3** | Et | H | H | $CH(CH_3)_2$ | Et | H | H | F | OH |
| **XXVIII-12-4** | Et | H | H | $CH_2CH(CH_3)_2$ | Et | H | H | F | OH |
| **XXVIII-12-5** | Et | H | H | $CH_2Ph$ | Et | H | H | F | OH |
| **XXVIII-12-6** | Et | H | H | $CH_2$-indol-3-yl | Et | H | H | F | OH |
| **XXVIII-12-7** | Et | H | H | $CH_2CH_2SCH_3$ | Et | H | H | F | OH |
| **XXVIII-12-8** | Et | * | H | * | Et | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00566

Table XXVIII-13.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-13-1** | $^i$Pr | H | H | H | Et | H | H | F | OH |
| **XXVIII-13-2** | $^i$Pr | H | H | $CH_3$ | Et | H | H | F | OH |
| **XXVIII-13-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | Et | H | H | F | OH |
| **XXVIII-13-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | Et | H | H | F | OH |
| **XXVIII-13-5** | $^i$Pr | H | H | $CH_2Ph$ | Et | H | H | F | OH |
| **XXVIII-13-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | Et | H | H | F | OH |
| **XXVIII-13-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | Et | H | H | F | OH |
| **XXVIII-13-8** | $^i$Pr | * | H | * | Et | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVIII-14.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-14-1** | $^t$Bu | H | H | H | Et | H | H | F | OH |
| **XXVIII-14-2** | $^t$Bu | H | H | $CH_3$ | Et | H | H | F | OH |
| **XXVIII-14-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | Et | H | H | F | OH |
| **XXVIII-14-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | Et | H | H | F | OH |
| **XXVIII-14-5** | $^t$Bu | H | H | $CH_2Ph$ | Et | H | H | F | OH |
| **XXVIII-14-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | Et | H | H | F | OH |
| **XXVIII-14-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | Et | H | H | F | OH |
| **XXVIII-14-8** | $^t$Bu | * | H | * | Et | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVIII-15.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-15-1** | Ph | H | H | H | Et | H | H | F | OH |
| **XXVIII-15-2** | Ph | H | H | $CH_3$ | Et | H | H | F | OH |
| **XXVIII-15-3** | Ph | H | H | $CH(CH_3)_2$ | Et | H | H | F | OH |
| **XXVIII-15-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | H | F | OH |
| **XXVIII-15-5** | Ph | H | H | $CH_2Ph$ | Et | H | H | F | OH |
| **XXVIII-15-6** | Ph | H | H | $CH_2$-indol-3-yl | Et | H | H | F | OH |
| **XXVIII-15-7** | Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | H | F | OH |
| **XXVIII-15-8** | Ph | * | H | * | Et | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00567

Table XXVIII-16.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-16-1** | p-Me-Ph | H | H | H | Et | H | H | F | OH |
| **XXVIII-16-2** | p-Me-Ph | H | H | $CH_3$ | Et | H | H | F | OH |
| **XXVIII-16-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | Et | H | H | F | OH |
| **XXVIII-16-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | H | F | OH |
| **XXVIII-16-5** | p-Me-Ph | H | H | $CH_2Ph$ | Et | H | H | F | OH |
| **XXVIII-16-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | Et | H | H | F | OH |
| **XXVIII-16-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | H | F | OH |
| **XXVIII-16-8** | p-Me-Ph | * | H | * | Et | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVIII-17.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-17-1** | p-F-Ph | H | H | H | Et | H | H | F | OH |
| **XXVIII-17-2** | p-F-Ph | H | H | $CH_3$ | Et | H | H | F | OH |
| **XXVIII-17-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | Et | H | H | F | OH |
| **XXVIII-17-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | H | F | OH |
| **XXVIII-17-5** | p-F-Ph | H | H | $CH_2Ph$ | Et | H | H | F | OH |
| **XXVIII-17-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | Et | H | H | F | OH |
| **XXVIII-17-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | H | F | OH |
| **XXVIII-17-8** | p-F-Ph | * | H | * | Et | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVIII-18.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-18-1** | p-Cl-Ph | H | H | H | Et | H | H | F | OH |
| **XXVIII-18-2** | p-Cl-Ph | H | H | $CH_3$ | Et | H | H | F | OH |
| **XXVIII-18-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | Et | H | H | F | OH |
| **XXVIII-18-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | H | F | OH |
| **XXVIII-18-5** | p-Cl-Ph | H | H | $CH_2Ph$ | Et | H | H | F | OH |
| **XXVIII-18-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | Et | H | H | F | OH |
| **XXVIII-18-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | H | F | OH |
| **XXVIII-18-8** | p-Cl-Ph | * | H | * | Et | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00568

Table XXVIII-19.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-19-1** | p-Br-Ph | H | H | H | Et | H | H | F | OH |
| **XXVIII-19-2** | p-Br-Ph | H | H | $CH_3$ | Et | H | H | F | OH |
| **XXVIII-19-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | Et | H | H | F | OH |
| **XXVIII-19-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | H | F | OH |
| **XXVIII-19-5** | p-Br-Ph | H | H | $CH_2Ph$ | Et | H | H | F | OH |
| **XXVIII-19-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | Et | H | H | F | OH |
| **XXVIII-19-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | H | F | OH |
| **XXVIII-19-8** | p-Br-Ph | * | H | * | Et | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVIII-20.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-20-1** | p-I-Ph | H | H | H | Et | H | H | F | OH |
| **XXVIII-20-2** | p-I-Ph | H | H | $CH_3$ | Et | H | H | F | OH |
| **XXVIII-20-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | Et | H | H | F | OH |
| **XXVIII-20-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | H | F | OH |
| **XXVIII-20-5** | p-I-Ph | H | H | $CH_2Ph$ | Et | H | H | F | OH |
| **XXVIII-20-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | Et | H | H | F | OH |
| **XXVIII-20-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | H | F | OH |
| **XXVIII-20-8** | p-I-Ph | * | H | * | Et | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVIII-21.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-21-1** | $CH_3$ | H | H | H | $^i$Pr | H | H | F | OH |
| **XXVIII-21-2** | $CH_3$ | H | H | $CH_3$ | $^i$Pr | H | H | F | OH |
| **XXVIII-21-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $^i$Pr | H | H | F | OH |
| **XXVIII-21-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | H | F | OH |
| **XXVIII-21-5** | $CH_3$ | H | H | $CH_2Ph$ | $^i$Pr | H | H | F | OH |
| **XXVIII-21-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | H | F | OH |
| **XXVIII-21-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | H | F | OH |
| **XXVIII-21-8** | $CH_3$ | * | H | * | $^i$Pr | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00569

Table XXVIII-22.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-22-1** | Et | H | H | H | $^i$Pr | H | H | F | OH |
| **XXVIII-22-2** | Et | H | H | $CH_3$ | $^i$Pr | H | H | F | OH |
| **XXVIII-22-3** | Et | H | H | $CH(CH_3)_2$ | $^i$Pr | H | H | F | OH |
| **XXVIII-22-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | H | F | OH |
| **XXVIII-22-5** | Et | H | H | $CH_2Ph$ | $^i$Pr | H | H | F | OH |
| **XXVIII-22-6** | Et | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | H | F | OH |
| **XXVIII-22-7** | Et | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | H | F | OH |
| **XXVIII-22-8** | Et | * | H | * | $^i$Pr | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVIII-23.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-23-1** | $^i$Pr | H | H | H | $^i$Pr | H | H | F | OH |
| **XXVIII-23-2** | $^i$Pr | H | H | $CH_3$ | $^i$Pr | H | H | F | OH |
| **XXVIII-23-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $^i$Pr | H | H | F | OH |
| **XXVIII-23-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | H | F | OH |
| **XXVIII-23-5** | $^i$Pr | H | H | $CH_2Ph$ | $^i$Pr | H | H | F | OH |
| **XXVIII-23-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | H | F | OH |
| **XXVIII-23-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | H | F | OH |
| **XXVIII-23-8** | $^i$Pr | * | H | * | $^i$Pr | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVIII-24.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-24-1** | $^t$Bu | H | H | H | $^i$Pr | H | H | F | OH |
| **XXVIII-24-2** | $^t$Bu | H | H | $CH_3$ | $^i$Pr | H | H | F | OH |
| **XXVIII-24-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $^i$Pr | H | H | F | OH |
| **XXVIII-24-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | H | F | OH |
| **XXVIII-24-5** | $^t$Bu | H | H | $CH_2Ph$ | $^i$Pr | H | H | F | OH |
| **XXVIII-24-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | H | F | OH |
| **XXVIII-24-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | H | F | OH |
| **XXVIII-24-8** | $^t$Bu | * | H | * | $^i$Pr | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00570

Table XXVIII-25.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-25-1** | Ph | H | H | H | $^i$Pr | H | H | F | OH |
| **XXVIII-25-2** | Ph | H | H | $CH_3$ | $^i$Pr | H | H | F | OH |
| **XXVIII-25-3** | Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | H | F | OH |
| **XXVIII-25-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | H | F | OH |
| **XXVIII-25-5** | Ph | H | H | $CH_2Ph$ | $^i$Pr | H | H | F | OH |
| **XXVIII-25-6** | Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | H | F | OH |
| **XXVIII-25-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | H | F | OH |
| **XXVIII-25-8** | Ph | * | H | * | $^i$Pr | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVIII-26.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-26-1** | p-Me-Ph | H | H | H | $^i$Pr | H | H | F | OH |
| **XXVIII-26-2** | p-Me-Ph | H | H | $CH_3$ | $^i$Pr | H | H | F | OH |
| **XXVIII-26-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | H | F | OH |
| **XXVIII-26-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | H | F | OH |
| **XXVIII-26-5** | p-Me-Ph | H | H | $CH_2Ph$ | $^i$Pr | H | H | F | OH |
| **XXVIII-26-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | H | F | OH |
| **XXVIII-26-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | H | F | OH |
| **XXVIII-26-8** | p-Me-Ph | * | H | * | $^i$Pr | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVIII-27.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-27-1** | p-F-Ph | H | H | H | $^i$Pr | H | H | F | OH |
| **XXVIII-27-2** | p-F-Ph | H | H | $CH_3$ | $^i$Pr | H | H | F | OH |
| **XXVIII-27-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | H | F | OH |
| **XXVIII-27-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | H | F | OH |
| **XXVIII-27-5** | p-F-Ph | H | H | $CH_2Ph$ | $^i$Pr | H | H | F | OH |
| **XXVIII-27-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | H | F | OH |
| **XXVIII-27-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | H | F | OH |
| **XXVIII-27-8** | p-F-Ph | * | H | * | $^i$Pr | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00571

Table XXVIII-28.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-28-1** | p-Cl-Ph | H | H | H | $^i$Pr | H | H | F | OH |
| **XXVIII-28-2** | p-Cl-Ph | H | H | $CH_3$ | $^i$Pr | H | H | F | OH |
| **XXVIII-28-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | H | F | OH |
| **XXVIII-28-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | H | F | OH |
| **XXVIII-28-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $^i$Pr | H | H | F | OH |
| **XXVIII-28-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | H | F | OH |
| **XXVIII-28-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | H | F | OH |
| **XXVIII-28-8** | p-Cl-Ph | * | H | * | $^i$Pr | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVIII-29.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-29-1** | p-Br-Ph | H | H | H | $^i$Pr | H | H | F | OH |
| **XXVIII-29-2** | p-Br-Ph | H | H | $CH_3$ | $^i$Pr | H | H | F | OH |
| **XXVIII-29-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | H | F | OH |
| **XXVIII-29-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | H | F | OH |
| **XXVIII-29-5** | p-Br-Ph | H | H | $CH_2Ph$ | $^i$Pr | H | H | F | OH |
| **XXVIII-29-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | H | F | OH |
| **XXVIII-29-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | H | F | OH |
| **XXVIII-29-8** | p-Br-Ph | * | H | * | $^i$Pr | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVIII-30.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-30-1** | p-I-Ph | H | H | H | $^i$Pr | H | H | F | OH |
| **XXVIII-30-2** | p-I-Ph | H | H | $CH_3$ | $^i$Pr | H | H | F | OH |
| **XXVIII-30-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | H | F | OH |
| **XXVIII-30-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | H | F | OH |
| **XXVIII-30-5** | p-I-Ph | H | H | $CH_2Ph$ | $^i$Pr | H | H | F | OH |
| **XXVIII-30-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | H | F | OH |
| **XXVIII-30-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | H | F | OH |
| **XXVIII-30-8** | p-I-Ph | * | H | * | $^i$Pr | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00572

Table XXVIII-31.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-31-1** | $CH_3$ | H | H | H | $^n$Bu | H | H | F | OH |
| **XXVIII-31-2** | $CH_3$ | H | H | $CH_3$ | $^n$Bu | H | H | F | OH |
| **XXVIII-31-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $^n$Bu | H | H | F | OH |
| **XXVIII-31-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | H | F | OH |
| **XXVIII-31-5** | $CH_3$ | H | H | $CH_2Ph$ | $^n$Bu | H | H | F | OH |
| **XXVIII-31-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | H | F | OH |
| **XXVIII-31-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | H | F | OH |
| **XXVIII-31-8** | $CH_3$ | * | H | * | $^n$Bu | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVIII-32.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-32-1** | Et | H | H | H | $^n$Bu | H | H | F | OH |
| **XXVIII-32-2** | Et | H | H | $CH_3$ | $^n$Bu | H | H | F | OH |
| **XXVIII-32-3** | Et | H | H | $CH(CH_3)_2$ | $^n$Bu | H | H | F | OH |
| **XXVIII-32-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | H | F | OH |
| **XXVIII-32-5** | Et | H | H | $CH_2Ph$ | $^n$Bu | H | H | F | OH |
| **XXVIII-32-6** | Et | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | H | F | OH |
| **XXVIII-32-7** | Et | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | H | F | OH |
| **XXVIII-32-8** | Et | * | H | * | $^n$Bu | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVIII-33.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-33-1** | $^i$Pr | H | H | H | $^n$Bu | H | H | F | OH |
| **XXVIII-33-2** | $^i$Pr | H | H | $CH_3$ | $^n$Bu | H | H | F | OH |
| **XXVIII-33-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $^n$Bu | H | H | F | OH |
| **XXVIII-33-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | H | F | OH |
| **XXVIII-33-5** | $^i$Pr | H | H | $CH_2Ph$ | $^n$Bu | H | H | F | OH |
| **XXVIII-33-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | H | F | OH |
| **XXVIII-33-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | H | F | OH |
| **XXVIII-33-8** | $^i$Pr | * | H | * | $^n$Bu | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00573

Table XXVIII-34.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-34-1** | $^t$Bu | H | H | H | $^n$Bu | H | H | F | OH |
| **XXVIII-34-2** | $^t$Bu | H | H | $CH_3$ | $^n$Bu | H | H | F | OH |
| **XXVIII-34-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $^n$Bu | H | H | F | OH |
| **XXVIII-34-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | H | F | OH |
| **XXVIII-34-5** | $^t$Bu | H | H | $CH_2Ph$ | $^n$Bu | H | H | F | OH |
| **XXVIII-34-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | H | F | OH |
| **XXVIII-34-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | H | F | OH |
| **XXVIII-34-8** | $^t$Bu | * | H | * | $^n$Bu | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVIII-35.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-35-1** | Ph | H | H | H | $^n$Bu | H | H | F | OH |
| **XXVIII-35-2** | Ph | H | H | $CH_3$ | $^n$Bu | H | H | F | OH |
| **XXVIII-35-3** | Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | H | H | F | OH |
| **XXVIII-35-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | H | F | OH |
| **XXVIII-35-5** | Ph | H | H | $CH_2Ph$ | $^n$Bu | H | H | F | OH |
| **XXVIII-35-6** | Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | H | F | OH |
| **XXVIII-35-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | H | F | OH |
| **XXVIII-35-8** | Ph | * | H | * | $^n$Bu | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVIII-36.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-36-1** | p-Me-Ph | H | H | H | $^n$Bu | H | H | F | OH |
| **XXVIII-36-2** | p-Me-Ph | H | H | $CH_3$ | $^n$Bu | H | H | F | OH |
| **XXVIII-36-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | H | H | F | OH |
| **XXVIII-36-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | H | F | OH |
| **XXVIII-36-5** | p-Me-Ph | H | H | $CH_2Ph$ | $^n$Bu | H | H | F | OH |
| **XXVIII-36-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | H | F | OH |
| **XXVIII-36-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | H | F | OH |
| **XXVIII-36-8** | p-Me-Ph | * | H | * | $^n$Bu | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00574

Table XXVIII-37.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-37-1** | p-F-Ph | H | H | H | $^n$Bu | H | H | F | OH |
| **XXVIII-37-2** | p-F-Ph | H | H | $CH_3$ | $^n$Bu | H | H | F | OH |
| **XXVIII-37-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | H | H | F | OH |
| **XXVIII-37-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | H | F | OH |
| **XXVIII-37-5** | p-F-Ph | H | H | $CH_2Ph$ | $^n$Bu | H | H | F | OH |
| **XXVIII-37-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | H | F | OH |
| **XXVIII-37-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | H | F | OH |
| **XXVIII-37-8** | p-F-Ph | * | H | * | $^n$Bu | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVIII-38.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-38-1** | p-Cl-Ph | H | H | H | $^n$Bu | H | H | F | OH |
| **XXVIII-38-2** | p-Cl-Ph | H | H | $CH_3$ | $^n$Bu | H | H | F | OH |
| **XXVIII-38-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | H | H | F | OH |
| **XXVIII-38-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | H | F | OH |
| **XXVIII-38-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $^n$Bu | H | H | F | OH |
| **XXVIII-38-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | H | F | OH |
| **XXVIII-38-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | H | F | OH |
| **XXVIII-38-8** | p-Cl-Ph | * | H | * | $^n$Bu | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVIII-39.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-39-1** | p-Br-Ph | H | H | H | $^n$Bu | H | H | F | OH |
| **XXVIII-39-2** | p-Br-Ph | H | H | $CH_3$ | $^n$Bu | H | H | F | OH |
| **XXVIII-39-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | H | H | F | OH |
| **XXVIII-39-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | H | F | OH |
| **XXVIII-39-5** | p-Br-Ph | H | H | $CH_2Ph$ | $^n$Bu | H | H | F | OH |
| **XXVIII-39-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | H | F | OH |
| **XXVIII-39-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | H | F | OH |
| **XXVIII-39-8** | p-Br-Ph | * | H | * | $^n$Bu | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00575

Table XXVIII-40.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-40-1** | p-I-Ph | H | H | H | $^n$Bu | H | H | F | OH |
| **XXVIII-40-2** | p-I-Ph | H | H | $CH_3$ | $^n$Bu | H | H | F | OH |
| **XXVIII-40-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $^n$Bu | H | H | F | OH |
| **XXVIII-40-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | H | F | OH |
| **XXVIII-40-5** | p-I-Ph | H | H | $CH_2Ph$ | $^n$Bu | H | H | F | OH |
| **XXVIII-40-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | H | F | OH |
| **XXVIII-40-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | H | F | OH |
| **XXVIII-40-8** | p-I-Ph | * | H | * | $^n$Bu | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVIII-41.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-41-1** | $CH_3$ | H | H | H | Bz | H | H | F | OH |
| **XXVIII-41-2** | $CH_3$ | H | H | $CH_3$ | Bz | H | H | F | OH |
| **XXVIII-41-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | Bz | H | H | F | OH |
| **XXVIII-41-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | Bz | H | H | F | OH |
| **XXVIII-41-5** | $CH_3$ | H | H | $CH_2Ph$ | Bz | H | H | F | OH |
| **XXVIII-41-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | Bz | H | H | F | OH |
| **XXVIII-41-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | Bz | H | H | F | OH |
| **XXVIII-41-8** | $CH_3$ | * | H | * | Bz | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVIII-42.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-42-1** | Et | H | H | H | Bz | H | H | F | OH |
| **XXVIII-42-2** | Et | H | H | $CH_3$ | Bz | H | H | F | OH |
| **XXVIII-42-3** | Et | H | H | $CH(CH_3)_2$ | Bz | H | H | F | OH |
| **XXVIII-42-4** | Et | H | H | $CH_2CH(CH_3)_2$ | Bz | H | H | F | OH |
| **XXVIII-42-5** | Et | H | H | $CH_2Ph$ | Bz | H | H | F | OH |
| **XXVIII-42-6** | Et | H | H | $CH_2$-indol-3-yl | Bz | H | H | F | OH |
| **XXVIII-42-7** | Et | H | H | $CH_2CH_2SCH_3$ | Bz | H | H | F | OH |
| **XXVIII-42-8** | Et | * | H | * | Bz | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00576

Table XXVIII-43.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-43-1** | $^i$Pr | H | H | H | Bz | H | H | F | OH |
| **XXVIII-43-2** | $^i$Pr | H | H | $CH_3$ | Bz | H | H | F | OH |
| **XXVIII-43-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | Bz | H | H | F | OH |
| **XXVIII-43-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | Bz | H | H | F | OH |
| **XXVIII-43-5** | $^i$Pr | H | H | $CH_2Ph$ | Bz | H | H | F | OH |
| **XXVIII-43-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | Bz | H | H | F | OH |
| **XXVIII-43-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | Bz | H | H | F | OH |
| **XXVIII-43-8** | $^i$Pr | * | H | * | Bz | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVIII-44.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-44-1** | $^t$Bu | H | H | H | Bz | H | H | F | OH |
| **XXVIII-44-2** | $^t$Bu | H | H | $CH_3$ | Bz | H | H | F | OH |
| **XXVIII-44-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | Bz | H | H | F | OH |
| **XXVIII-44-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | Bz | H | H | F | OH |
| **XXVIII-44-5** | $^t$Bu | H | H | $CH_2Ph$ | Bz | H | H | F | OH |
| **XXVIII-44-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | Bz | H | H | F | OH |
| **XXVIII-44-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | Bz | H | H | F | OH |
| **XXVIII-44-8** | $^t$Bu | * | H | * | Bz | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVIII-45.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-45-1** | Ph | H | H | H | Bz | H | H | F | OH |
| **XXVIII-45-2** | Ph | H | H | $CH_3$ | Bz | H | H | F | OH |
| **XXVIII-45-3** | Ph | H | H | $CH(CH_3)_2$ | Bz | H | H | F | OH |
| **XXVIII-45-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | H | H | F | OH |
| **XXVIII-45-5** | Ph | H | H | $CH_2Ph$ | Bz | H | H | F | OH |
| **XXVIII-45-6** | Ph | H | H | $CH_2$-indol-3-yl | Bz | H | H | F | OH |
| **XXVIII-45-7** | Ph | H | H | $CH_2CH_2SCH_3$ | Bz | H | H | F | OH |
| **XXVIII-45-8** | Ph | * | H | * | Bz | H | H | F | OH |



Gilead Exhibit 2024
PGR2023-00046 - Page 00577

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVIII-46.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-46-1** | p-Me-Ph | H | H | H | Bz | H | H | F | OH |
| **XXVIII-46-2** | p-Me-Ph | H | H | $CH_3$ | Bz | H | H | F | OH |
| **XXVIII-46-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | Bz | H | H | F | OH |
| **XXVIII-46-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | H | H | F | OH |
| **XXVIII-46-5** | p-Me-Ph | H | H | $CH_2Ph$ | Bz | H | H | F | OH |
| **XXVIII-46-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | Bz | H | H | F | OH |
| **XXVIII-46-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | H | H | F | OH |
| **XXVIII-46-8** | p-Me-Ph | * | H | * | Bz | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVIII-47.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-47-1** | p-F-Ph | H | H | H | Bz | H | H | F | OH |
| **XXVIII-47-2** | p-F-Ph | H | H | $CH_3$ | Bz | H | H | F | OH |
| **XXVIII-47-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | Bz | H | H | F | OH |
| **XXVIII-47-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | H | H | F | OH |
| **XXVIII-47-5** | p-F-Ph | H | H | $CH_2Ph$ | Bz | H | H | F | OH |
| **XXVIII-47-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | Bz | H | H | F | OH |
| **XXVIII-47-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | H | H | F | OH |
| **XXVIII-47-8** | p-F-Ph | * | H | * | Bz | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVIII-48.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-48-1** | p-Cl-Ph | H | H | H | Bz | H | H | F | OH |
| **XXVIII-48-2** | p-Cl-Ph | H | H | $CH_3$ | Bz | H | H | F | OH |
| **XXVIII-48-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | Bz | H | H | F | OH |
| **XXVIII-48-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | H | H | F | OH |
| **XXVIII-48-5** | p-Cl-Ph | H | H | $CH_2Ph$ | Bz | H | H | F | OH |
| **XXVIII-48-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | Bz | H | H | F | OH |
| **XXVIII-48-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | H | H | F | OH |



Gilead Exhibit 2024
PGR2023-00046 - Page 00578

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-48-8** | p-Cl-Ph | * | H | * | Bz | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXVIII-49.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-49-1** | p-Br-Ph | H | H | H | Bz | H | H | F | OH |
| **XXVIII-49-2** | p-Br-Ph | H | H | $CH_3$ | Bz | H | H | F | OH |
| **XXVIII-49-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | Bz | H | H | F | OH |
| **XXVIII-49-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | H | H | F | OH |
| **XXVIII-49-5** | p-Br-Ph | H | H | $CH_2Ph$ | Bz | H | H | F | OH |
| **XXVIII-49-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | Bz | H | H | F | OH |
| **XXVIII-49-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | H | H | F | OH |
| **XXVIII-49-8** | p-Br-Ph | * | H | * | Bz | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

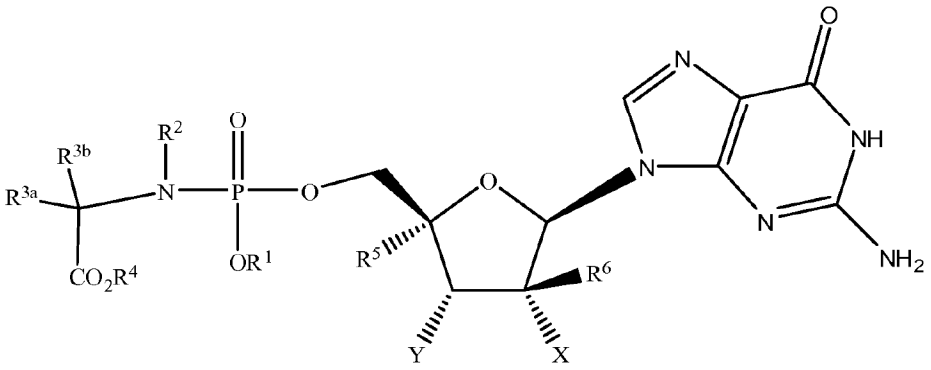
Table XXVIII-50.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXVIII-50-1** | p-I-Ph | H | H | H | Bz | H | H | F | OH |
| **XXVIII-50-2** | p-I-Ph | H | H | $CH_3$ | Bz | H | H | F | OH |
| **XXVIII-50-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | Bz | H | H | F | OH |
| **XXVIII-50-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | Bz | H | H | F | OH |
| **XXVIII-50-5** | p-I-Ph | H | H | $CH_2Ph$ | Bz | H | H | F | OH |
| **XXVIII-50-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | Bz | H | H | F | OH |
| **XXVIII-50-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | Bz | H | H | F | OH |
| **XXVIII-50-8** | p-I-Ph | * | H | * | Bz | H | H | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00579



**XXIX**

Table XXIX-1.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIX-1-1** | $CH_3$ | H | H | H | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-1-2** | $CH_3$ | H | H | $CH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-1-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-1-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-1-5** | $CH_3$ | H | H | $CH_2Ph$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-1-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-1-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-1-8** | $CH_3$ | * | H | * | $CH_3$ | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIX-2.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIX-2-1** | Et | H | H | H | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-2-2** | Et | H | H | $CH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-2-3** | Et | H | H | $CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-2-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-2-5** | Et | H | H | $CH_2Ph$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-2-6** | Et | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-2-7** | Et | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-2-8** | Et | * | H | * | $CH_3$ | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIX-3.



Gilead Exhibit 2024
PGR2023-00046 - Page 00580

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIX-3-1** | $^i$Pr | H | H | H | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-3-2** | $^i$Pr | H | H | $CH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-3-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-3-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-3-5** | $^i$Pr | H | H | $CH_2Ph$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-3-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-3-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-3-8** | $^i$Pr | * | H | * | $CH_3$ | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIX-4.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIX-4-1** | $^t$Bu | H | H | H | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-4-2** | $^t$Bu | H | H | $CH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-4-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-4-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-4-5** | $^t$Bu | H | H | $CH_2Ph$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-4-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-4-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-4-8** | $^t$Bu | * | H | * | $CH_3$ | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIX-5.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIX-5-1** | Ph | H | H | H | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-5-2** | Ph | H | H | $CH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-5-3** | Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-5-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-5-5** | Ph | H | H | $CH_2Ph$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-5-6** | Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-5-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-5-8** | Ph | * | H | * | $CH_3$ | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00581

Table XXIX-6.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIX-6-1** | p-Me-Ph | H | H | H | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-6-2** | p-Me-Ph | H | H | $CH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-6-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-6-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-6-5** | p-Me-Ph | H | H | $CH_2Ph$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-6-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-6-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-6-8** | p-Me-Ph | * | H | * | $CH_3$ | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIX-7.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIX-7-1** | p-F-Ph | H | H | H | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-7-2** | p-F-Ph | H | H | $CH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-7-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-7-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-7-6** | p-F-Ph | H | H | $CH_2Ph$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-7-7** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-7-8** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-7-20** | p-F-Ph | * | H | * | $CH_3$ | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIX-8.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIX-8-1** | p-Cl-Ph | H | H | H | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-8-2** | p-Cl-Ph | H | H | $CH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-8-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-8-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-8-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-8-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-8-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-8-8** | p-Cl-Ph | * | H | * | $CH_3$ | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00582

Table XXIX-9.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIX-9-1** | p-Br-Ph | H | H | H | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-9-2** | p-Br-Ph | H | H | $CH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-9-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-9-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-9-6** | p-Br-Ph | H | H | $CH_2Ph$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-9-7** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-9-8** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-9-20** | p-Br-Ph | * | H | * | $CH_3$ | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIX-10.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIX-10-1** | p-I-Ph | H | H | H | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-10-2** | p-I-Ph | H | H | $CH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-10-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-10-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-10-5** | p-I-Ph | H | H | $CH_2Ph$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-10-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-10-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $CH_3$ | H | $CH_3$ | F | OH |
| **XXIX-10-8** | p-I-Ph | * | H | * | $CH_3$ | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIX-11.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIX-11-1** | $CH_3$ | H | H | H | Et | H | $CH_3$ | F | OH |
| **XXIX-11-2** | $CH_3$ | H | H | $CH_3$ | Et | H | $CH_3$ | F | OH |
| **XXIX-11-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXIX-11-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXIX-11-5** | $CH_3$ | H | H | $CH_2Ph$ | Et | H | $CH_3$ | F | OH |
| **XXIX-11-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | Et | H | $CH_3$ | F | OH |
| **XXIX-11-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | Et | H | $CH_3$ | F | OH |
| **XXIX-11-8** | $CH_3$ | * | H | * | Et | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00583

Table XXIX-12.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIX-12-1** | Et | H | H | H | Et | H | $CH_3$ | F | OH |
| **XXIX-12-2** | Et | H | H | $CH_3$ | Et | H | $CH_3$ | F | OH |
| **XXIX-12-3** | Et | H | H | $CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXIX-12-4** | Et | H | H | $CH_2CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXIX-12-5** | Et | H | H | $CH_2Ph$ | Et | H | $CH_3$ | F | OH |
| **XXIX-12-6** | Et | H | H | $CH_2$-indol-3-yl | Et | H | $CH_3$ | F | OH |
| **XXIX-12-7** | Et | H | H | $CH_2CH_2SCH_3$ | Et | H | $CH_3$ | F | OH |
| **XXIX-12-8** | Et | * | H | * | Et | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIX-13.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIX-13-1** | $^i$Pr | H | H | H | Et | H | $CH_3$ | F | OH |
| **XXIX-13-2** | $^i$Pr | H | H | $CH_3$ | Et | H | $CH_3$ | F | OH |
| **XXIX-13-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXIX-13-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXIX-13-5** | $^i$Pr | H | H | $CH_2Ph$ | Et | H | $CH_3$ | F | OH |
| **XXIX-13-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | Et | H | $CH_3$ | F | OH |
| **XXIX-13-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | Et | H | $CH_3$ | F | OH |
| **XXIX-13-8** | $^i$Pr | * | H | * | Et | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIX-14.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIX-14-1** | $^t$Bu | H | H | H | Et | H | $CH_3$ | F | OH |
| **XXIX-14-2** | $^t$Bu | H | H | $CH_3$ | Et | H | $CH_3$ | F | OH |
| **XXIX-14-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXIX-14-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXIX-14-5** | $^t$Bu | H | H | $CH_2Ph$ | Et | H | $CH_3$ | F | OH |
| **XXIX-14-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | Et | H | $CH_3$ | F | OH |
| **XXIX-14-7** | $^t$Bu | H | H | $CH_2CH_2SCH$ | Et | H | $CH_3$ | F | OH |



Gilead Exhibit 2024
PGR2023-00046 - Page 00584

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIX-14-8** | $^t$Bu | * | H | * | Et | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIX-15.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIX-15-1** | Ph | H | H | H | Et | H | $CH_3$ | F | OH |
| **XXIX-15-2** | Ph | H | H | $CH_3$ | Et | H | $CH_3$ | F | OH |
| **XXIX-15-3** | Ph | H | H | $CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXIX-15-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXIX-15-5** | Ph | H | H | $CH_2Ph$ | Et | H | $CH_3$ | F | OH |
| **XXIX-15-6** | Ph | H | H | $CH_2$-indol-3-yl | Et | H | $CH_3$ | F | OH |
| **XXIX-15-7** | Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | $CH_3$ | F | OH |
| **XXIX-15-8** | Ph | * | H | * | Et | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIX-16.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIX-16-1** | p-Me-Ph | H | H | H | Et | H | $CH_3$ | F | OH |
| **XXIX-16-2** | p-Me-Ph | H | H | $CH_3$ | Et | H | $CH_3$ | F | OH |
| **XXIX-16-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXIX-16-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXIX-16-5** | p-Me-Ph | H | H | $CH_2Ph$ | Et | H | $CH_3$ | F | OH |
| **XXIX-16-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | Et | H | $CH_3$ | F | OH |
| **XXIX-16-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | $CH_3$ | F | OH |
| **XXIX-16-8** | p-Me-Ph | * | H | * | Et | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIX-17.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIX-17-1** | p-F-Ph | H | H | H | Et | H | $CH_3$ | F | OH |
| **XXIX-17-2** | p-F-Ph | H | H | $CH_3$ | Et | H | $CH_3$ | F | OH |
| **XXIX-17-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXIX-17-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |



Gilead Exhibit 2024
PGR2023-00046 - Page 00585

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIX-17-5** | p-F-Ph | H | H | $CH_2Ph$ | Et | H | $CH_3$ | F | OH |
| **XXIX-17-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | Et | H | $CH_3$ | F | OH |
| **XXIX-17-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | $CH_3$ | F | OH |
| **XXIX-17-8** | p-F-Ph | * | H | * | Et | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIX-18.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIX-18-1** | p-Cl-Ph | H | H | H | Et | H | $CH_3$ | F | OH |
| **XXIX-18-2** | p-Cl-Ph | H | H | $CH_3$ | Et | H | $CH_3$ | F | OH |
| **XXIX-18-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXIX-18-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXIX-18-5** | p-Cl-Ph | H | H | $CH_2Ph$ | Et | H | $CH_3$ | F | OH |
| **XXIX-18-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | Et | H | $CH_3$ | F | OH |
| **XXIX-18-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | $CH_3$ | F | OH |
| **XXIX-18-8** | p-Cl-Ph | * | H | * | Et | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIX-19.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIX-19-1** | p-Br-Ph | H | H | H | Et | H | $CH_3$ | F | OH |
| **XXIX-19-2** | p-Br-Ph | H | H | $CH_3$ | Et | H | $CH_3$ | F | OH |
| **XXIX-19-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXIX-19-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXIX-19-5** | p-Br-Ph | H | H | $CH_2Ph$ | Et | H | $CH_3$ | F | OH |
| **XXIX-19-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | Et | H | $CH_3$ | F | OH |
| **XXIX-19-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | $CH_3$ | F | OH |
| **XXIX-19-8** | p-Br-Ph | * | H | * | Et | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIX-20.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIX-20-1** | p-I-Ph | H | H | H | Et | H | $CH_3$ | F | OH |
| **XXIX-20-2** | p-I-Ph | H | H | $CH_3$ | Et | H | $CH_3$ | F | OH |



Gilead Exhibit 2024
PGR2023-00046 - Page 00586

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIX-20-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXIX-20-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | Et | H | $CH_3$ | F | OH |
| **XXIX-20-5** | p-I-Ph | H | H | $CH_2Ph$ | Et | H | $CH_3$ | F | OH |
| **XXIX-20-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | Et | H | $CH_3$ | F | OH |
| **XXIX-20-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | Et | H | $CH_3$ | F | OH |
| **XXIX-20-8** | p-I-Ph | * | H | * | Et | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIX-21.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIX-21-1** | $CH_3$ | H | H | H | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-21-2** | $CH_3$ | H | H | $CH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-21-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-21-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-21-5** | $CH_3$ | H | H | $CH_2Ph$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-21-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-21-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-21-8** | $CH_3$ | * | H | * | $^i$Pr | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIX-22.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIX-22-1** | Et | H | H | H | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-22-2** | Et | H | H | $CH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-22-3** | Et | H | H | $CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-22-4** | Et | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-22-5** | Et | H | H | $CH_2Ph$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-22-6** | Et | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-22-7** | Et | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-22-8** | Et | * | H | * | $^i$Pr | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIX-23.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|



Gilead Exhibit 2024
PGR2023-00046 - Page 00587

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIX-23-1** | $^i$Pr | H | H | H | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-23-2** | $^i$Pr | H | H | $CH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-23-3** | $^i$Pr | H | H | $CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-23-4** | $^i$Pr | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-23-5** | $^i$Pr | H | H | $CH_2Ph$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-23-6** | $^i$Pr | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-23-7** | $^i$Pr | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-23-8** | $^i$Pr | * | H | * | $^i$Pr | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIX-24.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIX-24-1** | $^t$Bu | H | H | H | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-24-2** | $^t$Bu | H | H | $CH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-24-3** | $^t$Bu | H | H | $CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-24-4** | $^t$Bu | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-24-5** | $^t$Bu | H | H | $CH_2Ph$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-24-6** | $^t$Bu | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-24-7** | $^t$Bu | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-24-8** | $^t$Bu | * | H | * | $^i$Pr | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIX-25.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIX-25-1** | Ph | H | H | H | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-25-2** | Ph | H | H | $CH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-25-3** | Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-25-4** | Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-25-5** | Ph | H | H | $CH_2Ph$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-25-6** | Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-25-7** | Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-25-8** | Ph | * | H | * | $^i$Pr | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00588

Table XXIX-26.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIX-26-1** | p-Me-Ph | H | H | H | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-26-2** | p-Me-Ph | H | H | $CH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-26-3** | p-Me-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-26-4** | p-Me-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-26-5** | p-Me-Ph | H | H | $CH_2Ph$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-26-6** | p-Me-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-26-7** | p-Me-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-26-8** | p-Me-Ph | * | H | * | $^i$Pr | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIX-27.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIX-27-1** | p-F-Ph | H | H | H | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-27-2** | p-F-Ph | H | H | $CH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-27-3** | p-F-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-27-4** | p-F-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-27-5** | p-F-Ph | H | H | $CH_2Ph$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-27-6** | p-F-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-27-7** | p-F-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-27-8** | p-F-Ph | * | H | * | $^i$Pr | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIX-28.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIX-28-1** | p-Cl-Ph | H | H | H | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-28-2** | p-Cl-Ph | H | H | $CH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-28-3** | p-Cl-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-28-4** | p-Cl-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-28-5** | p-Cl-Ph | H | H | $CH_2Ph$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-28-6** | p-Cl-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-28-7** | p-Cl-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-28-8** | p-Cl-Ph | * | H | * | $^i$Pr | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00589

Table XXIX-29.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIX-29-1** | p-Br-Ph | H | H | H | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-29-2** | p-Br-Ph | H | H | $CH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-29-3** | p-Br-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-29-4** | p-Br-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-29-5** | p-Br-Ph | H | H | $CH_2Ph$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-29-6** | p-Br-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-29-7** | p-Br-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-29-8** | p-Br-Ph | * | H | * | $^i$Pr | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIX-30.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIX-30-1** | p-I-Ph | H | H | H | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-30-2** | p-I-Ph | H | H | $CH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-30-3** | p-I-Ph | H | H | $CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-30-4** | p-I-Ph | H | H | $CH_2CH(CH_3)_2$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-30-5** | p-I-Ph | H | H | $CH_2Ph$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-30-6** | p-I-Ph | H | H | $CH_2$-indol-3-yl | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-30-7** | p-I-Ph | H | H | $CH_2CH_2SCH_3$ | $^i$Pr | H | $CH_3$ | F | OH |
| **XXIX-30-8** | p-I-Ph | * | H | * | $^i$Pr | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.

Table XXIX-31.

| № | $R^1$ | $R^2$ | $R^{3a}$ | $R^{3b}$ | $R^4$ | $R^5$ | $R^6$ | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| **XXIX-31-1** | $CH_3$ | H | H | H | $^n$Bu | H | $CH_3$ | F | OH |
| **XXIX-31-2** | $CH_3$ | H | H | $CH_3$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXIX-31-3** | $CH_3$ | H | H | $CH(CH_3)_2$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXIX-31-4** | $CH_3$ | H | H | $CH_2CH(CH_3)_2$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXIX-31-5** | $CH_3$ | H | H | $CH_2Ph$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXIX-31-6** | $CH_3$ | H | H | $CH_2$-indol-3-yl | $^n$Bu | H | $CH_3$ | F | OH |
| **XXIX-31-7** | $CH_3$ | H | H | $CH_2CH_2SCH_3$ | $^n$Bu | H | $CH_3$ | F | OH |
| **XXIX-31-8** | $CH_3$ | * | H | * | $^n$Bu | H | $CH_3$ | F | OH |

*$R^2$ and $R^{3b}$ joined together by $(CH_2)_3$ to form five-membered ring.



Gilead Exhibit 2024
PGR2023-00046 - Page 00590