

Drug resistance interpretation: PR

HIVDB 9.5.1 (2023-11-05)

PI Major Mutations:None

PI Accessory Mutations:None

PR Other Mutations:T12TA1.54%1.4.40%• K20KM0.40%0.30.40%• M36I0.0%0.00.0.0%• R41K0.0%0.00.0.0%• L63T0.0%0.00.0.0%• H69Y0.0%0.00.0.0%

Protease Inhibitors

atazanavir/r (ATV/r)	Susceptible
darunavir/r (DRV/r)	Susceptible
fosamprenavir/r (FPV/r)	Susceptible
indinavir/r (IDV/r)	Susceptible
lopinavir/r (LPV/r)	Susceptible
nelfinavir (NFV)	Susceptible
saquinavir/r (SQV/r)	Susceptible
tipranavir/r (TPV/r)	Susceptible

PR comments

Other

- K20M/V are uncommonrelatively non-polymorphic PI-selected mutations that have not been well studied.

Mutation scoring: PR

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No drug resistance mutations were found for PI.

Drug resistance interpretation: RT

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NRTI Mutations:None

NNRTI Mutations:K101E0.0%0.00.0.0%• V179VD0.47%0.4.47%• Y181C0.0%0.00.0.0%• G190S0.0%0.00.0.0%

RT Other Mutations:M16MV0.40%0.4.40%• V35T0.0%0.00.0.0%• T39A0.0%0.00.0.0%• E40D0.0%0.00.0.0%• K46Q0.0%0.00.0.0%• K49R0.0%0.00.0.0%• V60I0.0%0.00.0.0%• K122AE0.47%0.4.47%• D123DN0.42%0.4.42%• D177E0.0%0.00.0.0%• I178IL0.40%0.4.40%• T200I0.0%0.00.0.0%• Q207E0.0%0.00.0.0%• R211K0.0%0.00.0.0%• V245K0.0%0.00.0.0%• D250E0.0%0.00.0.0%

Nucleoside Reverse Transcriptase Inhibitors

abacavir (ABC)	Susceptible
zidovudine (AZT)	Susceptible
stavudine (D4T)	Susceptible
didanosine (DDI)	Susceptible
emtricitabine (FTC)	Susceptible
lamivudine (3TC)	Susceptible
tenofovir (TDF)	Susceptible

Non-nucleoside Reverse Transcriptase Inhibitors

doravirine (DOR)	High-Level Resistance
efavirenz (EFV)	High-Level Resistance
etravirine (ETR)	High-Level Resistance
nevirapine (NVP)	High-Level Resistance
rilpivirine (RPV)	High-Level Resistance

RT comments

NNRTI

- K101E is a non-polymorphic accessory mutation that confers intermediate resistance to NVP and RPV and low-level reductions in susceptibility to EFV, ETR, and DOR when it occurs with other NNRTI-resistance mutations.
- V179D/E are somewhat polymorphic accessory NNRTI-selected mutation. In combination with other NNRTI DRMs, they appear to contribute low-levels of reduced susceptibility to each of the NNRTIs. In particular, the combinations of K103R/V179D and V106I/V179D act synergistically to reduce NVP and EFV susceptibility.
- Y181C is a non-polymorphic mutation selected in persons receiving NVP, ETR and RPV. It confers high-level resistance to NVP, intermediate resistance to ETR and RPV, and low-level resistance to EFV. It does not significantly reduce DOR susceptibility.
- G190S is a non-polymorphic mutation that confers high-level resistance to NVP and EFV. It may also be associated low-levels reductions in DOR susceptibility. It does not appear to be selected by ETR or RPV or to reduce their in vitro susceptibility.

Mutation scoring: RT

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No drug resistance mutations were found for NRTI.

Drug resistance mutation scores of NNRTI:

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Rule	DOR ⚡	EFV ⚡	ETR ⚡	NVP ⚡	RPV ⚡
<u>K101E</u>	15	15	15	30	45
<u>K101E + G190S</u>	5	0	5	0	0
<u>Y181C</u>	10	30	30	60	45
<u>Y181C + G190S</u>	10	0	10	0	10
<u>G190S</u>	20	60	10	60	15
<u>K101E + Y181C</u>	0	5	5	5	0
<u>V179VD</u>	0	10	10	10	10
Total	60	120	85	165	125