HIVDB 9.5.1 (2023-11-05) Drug resistance interpretation: PR

None PI Major Mutations: PI Accessory Mutations: None

PR Other Mutations:

Protease Inhibitors

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

PR comments

Other

. L10I/V are polymorphic, PI-selected accessory mutations that increase the replication of viruses with other PI-resistance mutations.

Mutation scoring: PR

No drug resistance mutations were found for PI.

Drug resistance interpretation: RT HIVDB 9.5.1 (2023-11-05)

HIVDB 9.5.1 (2023-11-05)

M184V NRTI Mutations:

NNRTI Mutations: K103KN 6 100 A 470 * E138G 100 ... * G190GA 0 600 A 170

K11A ... K20R ... V21I ... K125K ... RT Other Mutations:

Nucleoside Reverse Transcriptase Inhibitors

abacavir (ABC) Low-Level Resistance zidovudine (AZT) Susceptible stavudine (D4T) Susceptible didanosine (DDI) Potential Low-Level Resistance emtricitabine (FTC) High-Level Resistance High-Level Resistance lamivudine (3TC)

Susceptible

Non-nucleoside Reverse Transcriptase Inhibitors

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

RT comments

tenofovir (TDF)

NRTI

M184V/I cause high-level in vitro resistance to 3TC and FTC and low/intermediate resistance to ABC (3-fold reduced susceptibility). M184V/I are not continued treatment with 3TC or FTC because they increase susceptibility to AZT and TDF and are associated with clinically significant reductions in HIV-1 replication.

NNRTI

- . K103N is a non-polymorphic mutation that confers high-level reductions in NVP and EFV susceptibility. It is the most commonly transmitted DRM.
- . E138Q/G are non-polymorphic accessory mutations selected by ETR occasionally NVP and EFV. They cause low-level reductions in susceptibility to NVP, RPV, and ETR.
- 6190A is a non-polymorphic mutation that causes high-level resistance to NVP and intermediate resistance to EFV. It does not significantly reduce susceptibility to RPV, ETR, or DOR.

Other

- . V179I is a polymorphic mutation that is frequently selected in persons receiving ETR and RPV. However, it has little, if any, direct effect on NNRTI susceptibility.
- . This virus is predicted to have intermediate-level reduced susceptibility to RPV. The use of the combination of CAB/RPV should be considered to be contraindicated.

HIVDB 9.5.1 (2023-11-05) Mutation scoring: RT

Drug resistance mutation scores of NNRTI:

Orug resistance mutation scores of NRTI:						Download CSV		
Rule	ABC ‡	AZT ≑	D4T ÷	DDI 💠	FTC ÷	зтс ≑	TDF 0	
M184V	15	-10	-10	10	60	60	-10	

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Rule	DOR ÷	EFV ≑	ETR ‡	NVP ≑	RPV ≑
K103KN	0	60	0	60	0
E138G	0	10	10	10	15
G190GA	0	45	10	60	15
Total	0	115	20	130	30