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

PI Major Mutations:

None

PI Accessory Mutations: Non

Protease Inhibitors

atazanavir/r (ATV/r) Susceptible
darunavir/r (DRV/r) Susceptible
lopinavir/r (LPV/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

NRTI Mutations:

HIVDB 9.5.1 (2023-11-05)

HIVDB 9.5.1 (2023-11-05)

No drug resistance mutations were found for PI.

Drug resistance interpretation: RT

M184V 175 T215F 187

NNRTI Mutations: A986 - V1081 - G190A - G190A

RT Other Mutations: K11T www. K20R www. C125 w

P294T #5 ... • E312ED 0.850, 0.270

Nucleoside Reverse Transcriptase Inhibitors Non-nucleoside Reverse Transcriptase Inhibitors abacavir (ABC) Low-Level Resistance doravirine (DOR) Low-Level Resistance zidovudine (AZT) Intermediate Resistance High-Level Resistance efavirenz (EFV) emtricitabine (FTC) High-Level Resistance etravirine (ETR) Low-Level Resistance lamivudine (3TC) High-Level Resistance nevirapine (NVP) High-Level Resistance tenofovir (TDF) Susceptible rilpivirine (RPV) Intermediate Resistance

RT comments

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 contraindications to 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.
- . T215Y/F are TAMs that causes intermediate/high-level resistance to AZT and potentially low-level resistance to ABC and TDF.

NNRTI

- A98G is a non-polymorphic accessory mutation associated with low-level reduced susceptibility to each of the NNRTIs.
- V108I is a relatively non-polymorphic accessory mutation selected in vitro and/or in vivo with each of the NNRTIs. It appears to contribute to reduced susceptibility to most NNRTIs only in combination with other NNRTI-resistance mutations.
- G190A 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

- K101Q is a relatively non-polymorphic mutation that is weakly selected in persons receiving NVP and EFV. It is of uncertain phenotypic and clinical significance.
- 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.

Mutation scoring: RT

HIVDB 9.5.1 (2023-11-05)

Drug resista	nce mutation	Download CSV			
Rule	ABC ≑	AZT ≑	FTC ÷	3TC ≑	TDF ÷
M184V	15	-10	60	60	-10
T215F	10	60	0	0	10
Total	25	50	60	60	0

Drug resistance mutation scores of NNRTI:

an and it cannot	THE INDICATION	DOMING CAY				
Rule	DOR ÷	EFV ‡	ETR ≑	NVP ≑	RPV ≑	
A98G	15	15	10	30	15	
V108I	10	10	0	15	0	
G190A	0	45	10	60	15	
Total	25	70	20	105	30	