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

PI Major Mutations:

None

PLAccessory Mutations: None

PR Other Mutations: 113V ::: - E35D ::: - M36I ::: - N37DE ::: - N37DE ::: - R41K ::: - R57RK ::: - R5

Protease Inhibitors

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

Mutation scoring: PR

HIVDB 9.5.1 (2023-11-05)

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No drug resistance mutations were found for PI.

Drug resistance interpretation: RT

NRTI Mutations: M184MV w sun, y arm

NNRTI Mutations: K103KN x con x are V108VI x con a P225PH x con x con

RT Other Mutations: E6D um - K20KR suntage - V35T um - V50I um - K102E um - V175I um - C174E um - C174E um - V175I um - V

doravirine (DOR)

Nucleoside Reverse Transcriptase Inhibitors

Low-Level Resistance Susceptible High-Level Resistance

High-Level Resistance Susceptible Non-nucleoside Reverse Transcriptase Inhibitors

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

Intermediate Resistance

RT comments

abacavir (ABC)

zidovudine (AZT)

emtricitabine (FTC)

lamivudine (3TC)

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 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.

NNRTI

- K103N is a non-polymorphic mutation that confers high-level reductions in NVP and EFV susceptibility. It is the most commonly transmitted DRM.
- 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.
- P225H is a non-polymorphic EFV-selected mutation that usually occurs in combination with K103N. The combination of P225H and K103N synergistically reduces NVP, EFV and DOR susceptibility.

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.

Mutation scoring: RT

HIVDB 9.5.1 (2023-11-05)

Drug resistano	e mutation s	Download C5V			
Rule	ABC ≑	AZT ≑	FTC ÷	3TC ≑	TDF 0
M184MV	15	-10	60	60	-10

Drug resistance mutation scores of NNRTI:

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l	Rule	DOR ÷	EFV ÷	ETR ÷	NVP ≑	RPV ≑
I	K103KN + P225PH	10	0	0	0	0
I	<u>V108VI</u>	10	10	0	15	0
I	P225PH	20	45	0	45	0
I	K103KN	0	60	0	60	0
ı	Total	40	115	0	120	0