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

PI Major Mutations: None

PI Accessory Mutations: L33F 1004

PR Other Mutations: K14R *** • G17E *** • E35D *** • M36L *** • R41K *** • K45R *** • R57K *** • L63S *** • 172V *** • L89M ***

Protease Inhibitors

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

Potential Low-Level Resistance fosamprenavir/r (FPV/r)

indinavir/r (IDV/r) Susceptible

lopinavir/r (LPV/r) Susceptible

nelfinavir (NFV) Potential Low-Level Resistance

saquinavir/r (SQV/r) Susceptible

tipranavir/r (TPV/r) Potential Low-Level Resistance

PR comments

Accessory

. L33F is a relatively non-polymorphic accessory mutation selected by each of the Pts. In combination with other Pt-resistance mutations, it is associated with reduced susceptibility to LPV, ATV, and DRV.

Mutation scoring: PR

Drug resistance mutation scores of PI:

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	Rule	ATV/r	DRV/r ÷	FPV/r ≑	IDV/r 🗦	LPV/r ≑	NFV ÷	SQV/r ≑	TPV/r	17
	L33F	5	5	10	5	5	10	5	10	

Drug resistance interpretation: RT

M184MV ** 175, 9-275 NRTI Mutations:

E138A ---NNRTI Mutations:

RT Other Mutations:

Nucleoside Reverse Transcriptase Inhibitors

Non-nucleoside Reverse Transcriptase Inhibitors

abacavir (ABC) Low-Level Resistance zidovudine (AZT) Susceptible stavudine (D4T) Susceptible

efavirenz (EFV)

didanosine (DDI) emtricitabine (FTC) High-Level Resistance lamivudine (3TC) High-Level Resistance

Potential Low-Level Resistance

doravirine (DOR) Susceptible Susceptible

Potential Low-Level Resistance etravirine (ETR) Susceptible

nevirapine (NVP) rilpivirine (RPV) Low-Level Resistance

tenofovir (TDF) Susceptible

RT comments

NRTI

NNRTI

Other

- 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.
- E138A is a common polymorphic accessory mutation weakly selected in persons receiving ETR and RPV. It reduces ETR and RPV susceptibility ~2-fold. Its effect on ETR- and RPV-containing regimens is likely to be minimal.
- 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 low-level reduced susceptibility to RPV. The use of the combination of CAB/RPV should be considered to be relatively contraindicated.

Mutation scoring: RT

HIVDB 9.5.1 (2023-11-05)

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rug resistance mutation scores of NRTI:				Download CSV			
Rule	ABC ‡	AZT ≑	D4T ÷	DDI ÷	FTC ÷	зтс≑	TDF ÷
M184MV	15	-10	-10	10	60	60	-10

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Rule	DOR ÷	EFV ÷	ETR ÷	NVP ≑	RPV ≑	
E138A	0	0	10	0	15	