Drug resistance interpretation: PR
HIVDB 9.5.1 (2023-11-05)
PI Major Mutations: None

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PI Accessory Mutations: None
None

Protease Inhibitors

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

PR comments

Other

VB2I is a highly polymorphic mutation that is not selected by PIs. It is the consensus amino acid in subtype G viruses.

Mutation scoring: PR

No drug resistance mutations were found for PI.

Drug resistance interpretation: RT

NRTI Mutations: K65R - Y115F -

NNRTI Mutations: K103N - Y181C - P225H -

RT Other Mutations: K11T K20R V35T T39A K46Q K122E D123S K173S C197K T200E E203D V245Q E248D A272P T286A E291D V292I P294T E312N ...

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

RT comments

NRTI

- K65R confers intermediate reductions in susceptibility to TDF, ABC, and 3TC/FTC. It increases AZT susceptibility. In NRTI-experienced, INSTI-naive patients receiving TDF+3TC+DTG is usually highly effective and more effective than AZT/3TC/DTG. However, in patients receiving TDF+3TC+DTG is usually highly effective and more effective than AZT/3TC/DTG. However, in patients receiving TDF+3TC+DTG.
- Y115F causes intermediate resistance to ABC and low-level resistance to TDF.

NNRTI

- K103N is a non-polymorphic mutation that confers high-level reductions in NVP and EFV susceptibility. It is the most commonly transmitted DRM.
- 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.
- 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.
- 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 resistance mutation scores of NRTI:

Drug resistance mutation scores of NNRTI:

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Rule	ABC ≑	AZT ≑	FTC ÷	зтс ≑	TDF
K65R	45	-10	30	30	50
<u>Y115F</u>	30	0	0	0	15
Total	75	-10	30	30	65

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Rule	DOR ÷	EFV ÷	ETR ÷	NVP ≑	RPV ÷
K103N + Y181C	5	0	0	0	0
K103N + P225H	10	0	0	0	0
Y181C	10	30	30	60	45
P225H	20	45	0	45	0
K103N	0	60	0	60	0
Total	45	135	30	165	45

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