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

PI Accessory Mutations:

PI Major Mutations:

None None

PR Other Mutations: L10X • V115 • T12P • 113G • K14P • 115G • L19I • K20I • E21R • A225 • L245 • M36I • R41K • K45R • H69K • K70Q • V82I • L89M

Protease Inhibitors

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

PR comments

Other

- K20I is the consensus amino acid in subtype G and CRF02_AG. In subtypes B and C, K20I is a PI-selected mutation of uncertain effects on currently used PIs.
- L24I is a non-polymorphic mutation selected by IDV and LPV. It contributes reduced susceptibility to ATV and LPV. L24F/M are uncommon non-polymorphic PI-selected mutations. L24F has a susceptibility profile similar to L24I. L24S is a highly unusual mutation at this position.
- 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 HIVDB 9.5.1 (2023-11-05)

HIVDB 9.5.1 (2023-11-05)

NRTI Mutations: NNRTI Mutations:

None G190A

Susceptible

RT Other Mutations: P4T • E6D • K20R • V35T • V60I • K122E • D123S • K173T • Q174K • 130X • Q27A • R211N • K219X • P247L • D250K • S251T • W252G • D256* • 1257Y • Q258T • K259E • W266* • A267V • A272P • 1274M • K275R • W276* • K277T • Q278L • L279V

abacavir (ABC) zidovudine (AZT) Susceptible stavudine (D4T) didanosine (DDI) Susceptible emtricitabine (FTC) Susceptible Susceptible Susceptible Susceptible Susceptible

Nucleoside Reverse Transcriptase Inhibitors

Non-nucleoside Reverse Transcriptase Inhibitors

doravirine (DOR)

efavirenz (EFV)

etravirine (ETR)

nevirapine (NVP)

rilpivirine (RPV)

Susceptible

Intermediate Resistance

Potential Low-Level Resistance

High-Level Resistance

Low-Level Resistance

RT comments

tenofovir (TDF)

NNRTI

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

- K238T/N are uncommon non-polymorphic mutations selected in persons receiving NVP and EFV usually in combination with K103N. Alone, K238T/N appear to have minimal effects on NNRTI susceptibility. K238Q is a highly unusual mutation at this position.
- 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 HIVDS 9.5.1 (2023-11-05)

No drug resistance mutations were found for NRTI.

Drug resistance mutation scores of NNRTI:

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Rule	DOR ‡	EFV ÷	ETR ÷	NVP ≑	RPV ≑	1
	0		10	60	15	1