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

PI Major Mutations: None

PI Accessory Mutations: None

PR Other Mutations: V11X • T12N • I13V • K14Q • I15Q • G16* • G17E • Q18E • L19G • E35D • M36I • R41K • R57K • L63V • I64L • H69K • L89M

Protease Inhibitors

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

Mutation scoring: PR HIVDB 9.5.1 (2023-11-05)

No drug resistance mutations were found for Pl.

Drug resistance interpretation: RT

HIVDB 9.5.1 (2023-11-05)

NRTI Mutations: K70R - K219E NNRTI Mutations: L100I • V108I

P4H - K11T - K20R - I31X - V35T - T39E - K49R - E53D - V60I - V90I - K122E - D123N - I135T - A158S - S162Y - K173S - Q174R - D177E - V179I - M184X - I25X - E224D - P226S - L228R - P236S - P243L - I244Y - V245S - L246C - P247R - E248Q - K249T - D250A - S251D -RT Other Mutations:

W252C • T253H • V254D • N255I • D256Q

Nucleoside Reverse Transcriptase Inhibitors

Non-nucleoside Reverse Transcriptase Inhibitors

abacavir (ABC) Potential Low-Level Resistance Intermediate Resistance zidovudine (AZT) Low-Level Resistance stavudine (D4T) Low-Level Resistance didanosine (DDI) emtricitabine (FTC) Susceptible

Susceptible

Potential Low-Level Resistance

doravirine (DOR) Low-Level Resistance High-Level Resistance efavirenz (EFV) Intermediate Resistance etravirine (ETR) High-Level Resistance nevirapine (NVP) rilpivirine (RPV) High-Level Resistance

RT comments

lamivudine (3TC)

tenofovir (TDF)

NRTI

- K70R is a TAM that confers intermediate resistance to AZT and contributes to reduced ABC and TDF susceptibility in combination with other TAMs.
- K219E/Q/N/R are accessory TAMS that usually occur in combination with multiple other TAMs.

NNRTI

- L100I is a non-polymorphic mutation that usually occurs in combination with K103N. In this setting it confers high-level resistance to NVP, EFV, and RPV and intermediate resistance to ETR and DOR.
- 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.

Other

- V90I is a polymorphic accessory mutation weakly selected by each of the NNRTIs. It is associated with minimal, if any, detectable reduction in NNRTI susceptibility.
- 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.
- P236L is a rare mutation selected commonly by DLV, which appears to have little if any effect on current NNRTIs. P236S is a highly unusual mutation at this position.

Drug	resis	tance	mutatio	n score

es of NRTI: Download CSV ABC
AZT
DAT
DDI
FTC
STC
TDF

	<u>K70R</u>	5	30	15	10	0	0	5
	K219E	5	10	10	5	0	0	5
	Total	10	40	25	15	0	0	10



