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

PI Major Mutations: None

PLAccessory Mutations: None

PR Other Mutations: 113V • M36I • R41K • K45R • L63A • J64V

Protease Inhibitors

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

Mutation scoring: PR

Drug resistance interpretation: RT

No drug resistance mutations were found for PI.

568N ** Δ69 ** K70R ** M184V ** NRTI Mutations:

L1001 :-- K103N :-- E138Q :--NNRTI Mutations:

K11T - K32Q - V35T - T39K - K287R - V26T - K287R - K317R - K31 RT Other Mutations:

H315Y ===

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

RT comments

NRTI

- Amino acid deletions between codons 67 and 70 are rare and usually occur in combination with multiple TAMs, Coletions at position 67 are more often associated with K65R or the Q151M mutation complex. Deletions at codon 68 are extremely rare and less well characterized.
- . K70R is a TAM that confers intermediate resistance to AZT and contributes to reduced ABC and TDF susceptibility in combination with other TAMs.
- M184V/I cause high-level in vitro resistance to 3TC and Iow/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

- . L100 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.
- K103N is a non-polymorphic mutation that confers high-level reductions in NVP and EPV susceptibility. It is the most commonly transmitted DRM.
- E138Q/G are non-polymorphic accessory mutations selected by ETR occasionally NVP and EFV. They cause low-level reductions in susceptibility to NVP, RPV, and ETR.

Mutation scoring: RT

HIVDB 9.5.1 (2023-11-05)

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rug resisiui	nce mutation	Downsoad Cav			
Rule	ABC ‡	AZT ≑	FTC ‡	3TC ≑	TDF
T69del	15	0	15	15	15
K70R	5	30	0	0	5
M184V	15	-10	60	60	-10
Total	35	20	75	75	10

I	Drug resistance mu	Download (35V 🕌			
	Rule	DOR 0	EFV ≑	ETR ÷	NVP ≑	RPV ÷
	L100I	15	60	30	60	60
	L100I + K103N	15	0	0	0	0
	K103N	0	60	0	60	0
	E1380	0	10	10	10	15
- 1	Total	30	130	40	130	75