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

PI Major Mutations: None

PR Other Mutations: L101 mg - 113V mg - K14R mg - G16E mg - L191 mg - K20R mg - E35D mg - M361 mg - R41K mg - R57K mg - L63T mg - H69Q mg - L89M mg

Protease Inhibitors

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

PR comments

PI Accessory Mutations:

Other

- . L10(V are polymorphic, PI-selected accessory mutations that increase the replication of viruses with other PI-resistance mutations.
- K20R is a highly polymorphic PI-selected accessory mutation that increases replication fitness in viruses with PI-resistance mutations.

Mutation scoring: PR

HIVDB 9.5.1 (2023-11-05)

HIVDB 9.5.1 (2023-11-05)

No drug resistance mutations were found for PI.

Drug resistance interpretation: RT

L74V M184V NRTI Mutations: NNRTI Mutations: L1001 876 ... K103N 876

RT Other Mutations: E6D 100 - V35T 100 - V

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) High-Level Resistance etravirine (ETR) Intermediate Resistance lamivudine (3TC) High-Level Resistance nevirapine (NVP) High-Level Resistance tenofovir (TDF) Susceptible rilpivirine (RPV) High-Level Resistance

RT comments

NRTI

- L74V causes intermediate ABC resistance. L74I causes low-level ABC resistance.
- 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.

Other

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 EFV susceptibility. It is the most commonly transmitted DRM.

. 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.

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

Orug resistance mutation scores of NRTI:				Download CSV		
Rule	ABC ‡	AZT ≑	FTC ‡	3TC ≑	TDF 0	
L74V	30	0	0	0	0	
L74V+M184V	15	0	0	0	0	
M184V	15	-10	60	60	-10	
Total	60	-10	60	60	-10	

Drug resistance mu	t:	Download CSV			
Rule	DOR ÷	EFV ÷	ETR ÷	NVP ≑	RPV ÷
L100I	15	60	30	60	60
L100I+K103N	15	0	0	0	0
K103N	0	60	0	60	0
Total	30	120	30	120	60