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

PI Major Mutations: None

PI Accessory Mutations:

L10V === - R41K === - L63P === - C67S === - V77I === PR Other Mutations:

Protease Inhibitors

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

PR comments

Other

L10(V are polymorphic, PI-selected accessory mutations that increase the replication of viruses with other PI-resistance mutations.

Mutation scoring: PR

No drug resistance mutations were found for PI.

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

HIVDB 9.5.1 (2023-11-05)

K70KNQ N EPR, K EPR, Q SPR . L74LI L EPR, L4PR. NRTI Mutations: Y181YC - 175, 5.275 * H221HY 5.795, H.275 NNRTI Mutations:

RT Other Mutations: V8VI 1 200 1

Nucleoside Reverse Transcriptase Inhibitors Non-nucleoside Reverse Transcriptase Inhibitors abacavir (ABC) Intermediate Resistance doravirine (DOR) Intermediate Resistance zidovudine (AZT) Susceptible efavirenz (EFV) Intermediate Resistance

stavudine (D4T) Intermediate Resistance Low-Level Resistance etravirine (ETR) High-Level Resistance didanosine (DDI) High-Level Resistance nevirapine (NVP) emtricitabine (FTC) Potential Low-Level Resistance rilpivirine (RPV) High-Level Resistance lamivudine (3TC) Potential Low-Level Resistance

RT comments

tenofovir (TDF)

NRTI

- K70/E/Q/N/T/S/G cause low-leve resistance to ABC and TDF.
- L74V causes intermediate ABC resistance. L74I causes low-level ABC resistance.

Low-Level Resistance

- . 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.
- H221Y is a non-polymorphic accessory mutation selected primarily by NVP, RPV, and DOR. It frequently occurs in combination with Y181C.

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

Drug resistance mutation scores of NRTI: Rule ABC
AZT DAT DDI FTC 3TC TDF 15 15 15 10 10 0 60 15 0 0 0 0 5 Total 30 0 15 75 10 10

orug resistance mutation scores or wiwi i.			Download CSV		
Rule	DOR ÷	EFV ÷	ETR ÷	NVP ≑	RPV ≑
<u>Y181YC</u>	10	30	30	60	45
Y181YC + H221HY	10	0	0	0	10
H221HY	10	10	10	15	15
Total	30	40	40	75	70

Integrase Strand Transfer Inhib	bitors	
bictegravir (BIC) cabotegravir (CAB) dolutegravir (DTG) elvitegravir (EVG) raltegravir (RAL)	Susceptible Susceptible Susceptible Susceptible Susceptible Susceptible	
Other • M50I is a highly polymorphic mutation, which has a prevalence of 3% to 34% in INSTI-naïve persons depending on subtype. It has been selected in vitro by DTG and BIC in combination with R263K. It may contribute to reduced DTG and CAB susceptibility in combination with R263K.		

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No drug resistance mutations were found for INSTI.