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

PI Major Mutations:

None

PI Accessory Mutations: None

PR Other Mutations: 115V == . K20R == . M36I == . N37K == . R41N == . R57K == . L63T == . V77I ==

Protease Inhibitors

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

PR comments

Other

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)

No drug resistance mutations were found for PI.

Drug resistance interpretation: RT

HIVDB 9.5.1 (2023-11-05)

NRTI Mutations: M184V K219R K219R NRTI Mutations: K103N V108I V108

RT Other Mutations: K20R - V35T - T39A - E40D - K49R - V60I - K102R - V118C - E203K - Q207E - L228R - V245K - A272S - K277R - L282C - L283I - T286A - L283K - E207K - L283K - L282C - L283I - T286A - L282C - L283K - L282C - L282K - L282C -

Nucleoside Reverse Transcriptase Inhibitors

Non-nucleoside Reverse Transcriptase Inhibitors

abacavir (ABC) Low-Level Resistance doravirine (DOR) Potential Low-Level Resistance zidovudine (AZT) Susceptible efavirenz (EFV) High-Level Resistance emtricitabine (FTC) High-Level Resistance etravirine (ETR) Susceptible lamivudine (3TC) High-Level Resistance High-Level Resistance nevirapine (NVP) tenofovir (TDF) rilpivirine (RPV) Susceptible Susceptible

RT comments

NRTI

- 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.
- K219E/Q/N/R are accessory TAMS that usually occur in combination with multiple other TAMs.

NNRTI

- K103N is a non-polymorphic mutation that confers high-level reductions in NVP and EFV susceptibility. It is the most commonly transmitted DRM.
- 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.

Mutation scoring: RT

HIVDB 9.5.1 (2023-11-05)

urug resna	nce mutation	Download CSV			
Rule	ABC ≑	AZT ≑	FTC ÷	3TC ≑	TDF ‡
M184V	15	-10	60	60	-10
K219R	5	10	0	0	5
Total	20	0	60	60	-5

Drug resistance mutation scores of NNRTI: Download CSV

		1			
Rule	DOR ÷	EFV ≑	ETR ≑	NVP ≑	RPV ≑
V108I	10	10	0	15	0
K103N	0	60	0	60	0
Total	10	70	0	75	0