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

PI Major Mutations:

None None

PI Accessory Mutations: None

PP Other Mutations: NOR --- + M351 ---

PR Other Mutations: K20R xxxx - M36I xxxx 2 - K41K xxxx 2 - K52A xxxx - K63K xxx - K82VI xxxxx 2 - K82VI xxxxx 2 - K82VI xxxx 2 - K82VI xxx 2 - K82VI xxxx 2 - K82VI xxx 2 - K82VI xx 2 - K82VI xxx 2 - K82VI xx 2 - K82VI xxx 2 - K82VI xxx

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.
- V82I is a highly polymorphic mutation that is not selected by PIs. It is the consensus amino acid in subtype G viruses.

Mutation scoring: PR

NRTI Mutations:

HIVDB 9.5.1 (2023-11-05)

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No drug resistance mutations were found for PI.

Drug resistance interpretation: RT

M184V or ... * T215TF / 17% 1 20%

NNRTI Mutations: K101E 6190A

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

RT comments

NRTI

- 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.
- T215Y/F are TAMs that causes intermediate/high-level resistance to AZT and potentially low-level resistance to ABC and TDF.

MMDTI

- KIDIE is a non-polymorphic accessory mutation that confers intermediate resistance to NVP and RPV and low-level reductions in susceptibility to EFV, ETR, and DOR when it occurs with other NNRTI-resistance mutations.
- G190A is a non-polymorphic mutation that causes high-level resistance to NVP and intermediate resistance to EFV. It does not significantly reduce susceptibility to RPV, ETR, or DOR.

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

Drug resistance mutation scores of NRTI: Download CSV ABC ÷ AZT : FTC : 3TC ≑ TDF: 15 -10 60 60 -10 10 60 0 0 10 Total 25 50 60 60 0

Orug resistance mutation scores of NNRT1:				Download CSV	
Rule	DOR ÷	EFV ÷	ETR ÷	NVP ≑	RPV ≑
K101E	15	15	15	30	45
K101E+G190A	5	0	5	0	0
G190A	0	45	10	60	15
Total	20	60	30	90	60