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

PI Major Mutations:

None

PI Accessory Mutations: None

PR Other Mutations: T12P xxx • I13V xxx • G16E xxx • K20R xxx • M36I xxx • R41K xxx • I64V xxx • I72V 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.

Mutation scoring: PR

HIVDB 9.5.1 (2023-11-05)

No drug resistance mutations were found for PI.

Drug resistance interpretation: RT

NRTI Mutations: K65R

HIVDB 9.5.1 (2023-11-05)

NNRTI Mutations: K101E ** K103N ** G190A ***

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

RT comments

NRTI

• K65R confers intermediate reductions in susceptibility to TDF, ABC, and 3TC/FTC. It increases AZT susceptibility. In NRTI-experienced, INSTI-naive patients receiving TDF+3TC+DTG is usually highly effective and more effective than AZT/3TC/DTG. However, in patients receiving TDF+3TC+DTG.

NNRTI

- K101E 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.
- K103N is a non-polymorphic mutation that confers high-level reductions in NVP and EPV susceptibility. It is the most commonly transmitted DRM.
- 6190A 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)

rug resist	ance mutatio	Download CSV			
Rule	ABC ≑	AZT ≑	FTC ÷	3TC ≑	TDF ÷
K65R	45	-10	30	30	50

Drug residunce mui		Download CSV			
Rule	DOR 0	EFV ÷	ETR ≑	NVP ≑	RPV ≑
K101E	15	15	15	30	45
K101E + G190A	5	0	5	0	0
K103N	0	60	0	60	0
G190A	0	45	10	60	15
Total	20	120	30	150	60