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

None PI Major Mutations:

PLAccessory Mutations: None

PR Other Mutations: L101 - 113V - K20R - M36I - R41K - R57K - L63P - H69K - L89I - S94GD - L89I

## Protease Inhibitors

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

## PR comments

Mutation scoring: PR

## 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.

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No drug resistance mutations were found for PI.

Drug resistance interpretation: RT

K65R - M184V NRTI Mutations: NNRTI Mutations: K101P --- K103N ---

Susceptible

RT Other Mutations: 

Nucleoside Reverse Transcriptase Inhibitors

Non-nucleoside Reverse Transcriptase Inhibitors

doravirine (DOR) High-Level Resistance Potential Low-Level Resistance efavirenz (EFV) High-Level Resistance Intermediate Resistance etravirine (ETR) High-Level Resistance High-Level Resistance nevirapine (NVP) High-Level Resistance High-Level Resistance rilpivirine (RPV) High-Level Resistance

lamivudine (3TC) High-Level Resistance tenofovir (TDF) Intermediate Resistance

RT comments

abacavir (ABC)

zidovudine (AZT)

stavudine (D4T)

didanosine (DDI)

emtricitabine (FTC)

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

## NNRTI

NRTI

- . K101P is a non-polymorphic mutation that confers high-level resistance to NVP, EFV, RPV, and ETR. Its does not appear to reduce DOR susceptibility.
- . K103N is a non-polymorphic mutation that confers high-level reductions in NVP and EPV susceptibility. It is the most commonly transmitted DRM.

Mutation scoring: RT

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Orug resistance mutation scores of NRTI:						Download CSV		
Rule	ABC ÷	AZT ≑	D4T ≑	DDI ÷	FTC ÷	зтс ≑	TD	
K65R	45	-10	60	60	30	30	5	
M184V	15	-10	-10	10	60	60	-]	
Total	60	-20	50	70	90	90	4	

Drug resistance mutation scores of NNRTI:

Rule	DOR ÷	EFV ≑	ETR ÷	NVP ≑	RPV ≑
K101P	10	60	60	60	60
K103N	0	60	0	60	0
Total	10	120	60	120	en