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

PI Major Mutations: PI Accessory Mutations:

atazanavir/r (ATV/r)

None None

Susceptible

PR Other Mutations: 113V 185 ... M36I 185 ... R41K 185 ... L63C 185 ... 164V 185 ... V82I 185

Protease Inhibitors

darunavir/r (DRV/r) Susceptible

lopinavir/r (LPV/r) Susceptible

### PR comments

#### Other

VB2I is a highly polymorphic mutation that is not selected by PIs. It is the consensus amino acid in subtype G viruses.

Mutation scoring: PR

Drug resistance interpretation: RT

HIVDB 9.5.1 (2023-11-05)

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No drug resistance mutations were found for PI.

NRTI Mutations: K65KR \* GOL S. DOL\* M184MIV \*\* APALL APALL

NNRTI Mutations: L100LI stratum K103N wa

RT Other Mutations: V35T \*\*\* K49R \*\*\* \*\*\* V60I \*\*\* \*\*\* \*\*\* 123E \*\*\* \*\*\* 123E \*\*\* 123E

# **Nucleoside Reverse Transcriptase Inhibitors**

High-Level Resistance

Susceptible High-Level Resistance High-Level Resistance

Intermediate Resistance

#### Non-nucleoside Reverse Transcriptase Inhibitors

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

#### RT comments

abacavir (ABC)

zidovudine (AZT)

lamivudine (3TC)

tenofovir (TDF)

emtricitabine (FTC)

## NRTI

- 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

- L100I is a non-polymorphic mutation that usually occurs in combination with K103N. In this setting it confers high-level resistance to NVP, EFV, and RPV and intermediate resistance to ETR and DOR.
- . K103N is a non-polymorphic mutation that confers high-level reductions in NVP and EFV susceptibility. It is the most commonly transmitted DRM.

#### Mutation scoring: RT

HIVDB 9.5.1 (2023-11-05)

rug resistance mutation scores or NRTI:				Download CSV		
Rule	ABC ≑	AZT ≑	FTC ÷	3TC ≑	TDF ÷	
K65KR	45	-10	30	30	50	
M184MIV	15	-10	60	60	-10	
Total	60	-20	90	90	40	

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Rule	DOR ÷	EFV ≑	ETR ÷	NVP ≑	RPV ≑
L100LI	15	60	30	60	60
L100LI + K103N	15	0	0	0	0
K103N	0	60	0	60	0
Total	30	120	30	120	60