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

PI Major Mutations: None
PI Accessory Mutations: None

PR Other Mutations: L19I 91% N37A 90% R41K 99% L63P 91% L63P 91% GDV-37.424 - I64L 90% CDV-37.424

## Protease Inhibitors

 atazanavir/r (ATV/r)
 Susceptible

 darunavir/r (DRV/r)
 Susceptible

 lopinavir/r (LPV/r)
 Susceptible

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

No drug resistance mutations were found for Pl.

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

NRTI Mutations: L74I 85% - M184V 97% CD09-32,612

NNRTI Mutations: K103N 00% • P225H 00% • F227C 04% • M230L 04%

RT Other Mutations: K32N 000 - V35T 000 - V3

Non-nucleoside Reverse Transcriptase Inhibitors

L283| 95% T286V 94% 1293V 95% 1329|R 1789, R 12%

# Nucleoside Reverse Transcriptase Inhibitors

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

#### RT comments

## NRTI

- L74V causes intermediate ABC resistance. L74I causes low-level ABC resistance.
- 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

- K103N is a non-polymorphic mutation that confers high-level reductions in NVP and EFV susceptibility. It is the most commonly transmitted DRM.
- P225H is a non-polymorphic EFV-selected mutation that usually occurs in combination with K103N. The combination of P225H and K103N synergistically reduces NVP, EFV and DOR susceptibility.
- F227C is a nonpolymorphic mutation selected in persons receiving DOR and rarely in persons receiving ETR and RPV. It usually occurs in combination with other DRMs and in this setting has consistently been associated with the highest possible levels of DOR resistance. It is also usually associated with intermediate or high-level reductions in susceptibility to NVP, EFV, ETR, and RPV.
- . M230L is an uncommon non-polymorphic mutation selected in persons receiving EFV, NVP, and RPV. It causes intermediate to high-level resistance to each of the NNRTIs.

Drug resistance mutation scores of NRTI:

7	

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Rule	ABC ÷	AZT \$	FTC ‡	зтс ≑	TDI		
<u>L74I</u>	15	0	0	0			
M184V	15	-10	60	60	-]		
Total	30	-10	60	60	-		

Drug resistance mutation scores of NNRTI:



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Rule	DOR \$	EFV \$	ETR ÷	NVP \$	RPV ÷
K103N + P225H	10	0	0	0	0
P225H	20	45	0	45	0
F227C	60	45	30	45	45
M230L	60	45	30	60	60
K103N	0	60	0	60	0
Total	150	195	60	210	105