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

PI Major Mutations: None PI Accessory Mutations: None

113V 99% - G16E 98% - E35D 99% - M36I 100% - R41K 99% - R57K 88% - L63Q 99% - H69K 98% - L89M 99% 000*** - 1000*** -PR Other Mutations:

Protease Inhibitors

atazanavir/r (ATV/r) Susceptible darunavir/r (DRV/r) Susceptible lopinavir/r (LPV/r) Susceptible

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

No drug resistance mutations were found for Pl.

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

NRTI Mutations: K65R 99% . . . S68G 99% . . . M184V 99%

L1001 95% K103N 95% NNRTI Mutations:

RT Other Mutations:

K277R 50% - L282C 50% - L283I 50% - T286N 50% - A288T 50% - I293V 50% C00*17.005

Nucleoside Reverse Transcriptase Inhibitors Non-nucleoside Reverse Transcriptase Inhibitors

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

RT comments

- 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, there is a risk of emergent DTG resistance that does not arise in NRTI-naive patients receiving TDF+3TC+DTG.
- \$686 is a polymorphic mutation that is often selected in combination with K65R. It partially restores the replication defect associated with K65R.
- M184V/I cause high-level in vitro resistance to ATC 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

- 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.

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

Drug resistance mutation scores of NRTI:

Rule	ABC ≑	AZT \$	FTC ‡	зтс ≑	TDF =
K65R	45	-10	30	30	50
M184V	15	-10	60	60	-10
K65R + S68G	0	0	0	0	5
Total	60	-20	90	90	45

Rule	DOR =	EFV ≑	

NVP

RPV