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

PI Major Mutations: None PI Accessory Mutations: None

T12A 52% - I13V 50% - M36I 50% - R41K 50% - K45R 52% - R57K 53% - D60E 51% - I62V 51% - L63A 52% - I64V 53% - I72V 52% - 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

K65R 90% S68N 90% M184V 90% COUNTS, 136 M184V 90% NRTI Mutations:

NNRTI Mutations: K103N 97% • G190A 97%

RT Other Mutations: V35T see . K49R see . V60I see . K102N see . D121Y see . L282C see . D121Y see . L282C see . L283I see . L282C see . L283I see . L283I see . L282C see . L283I see . L283I see . L282C see . L283I see

Nucleoside Reverse Transcriptase Inhibitors

Non-nucleoside Reverse Transcriptase Inhibitors

abacavir (ABC) High-Level Resistance doravirine (DOR) Susceptible zidovudine (AZT) Susceptible efavirenz (EFV) High-Level Resistance Potential Low-Level Resistance emtricitabine (FTC) High-Level Resistance etravirine (ETR) High-Level Resistance High-Level Resistance lamivudine (3TC) nevirapine (NVP) tenofovir (TDF) Intermediate Resistance rilpivirine (RPV) Low-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, there is a risk of emergent DTG resistance that does not arise in NRTI-naive patients receiving TDF+3TC+DTG.
- 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

. 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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- G190A 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.
- This virus is predicted to have low-level reduced susceptibility to RPV. The use of the combination of CAB/RPV should be considered to be relatively contraindicated.

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

Drug resistance mi	utation sco	res of NRTI:		Download 0	SV	•
Rule	ABC ≑	AZT ÷	FTC ÷	зтс ≑	TDF	÷
K65R	45	-10	30	30	50	
M184V	15	-10	60	60	-10	
K65R + S68N	0	0	0	0	5	
Total	60	-20	90	90	45	

Drug resisto	nce mutation	Download CSV			
Rule	DOR =	EFV \$	ETR ‡	NVP ≑	RPV \$
K103N	0	60	0	60	0

15

15

G190A 0 45 10

Total 0