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

PI Major Mutations: None PI Accessory Mutations: None

PR Other Mutations: 113V ::: • K14R ::: • G16A :: • E35D :: • M36I :: • R41K :: • K45R :: • R57K :: • L63N :: • H69K :: • L89M :: • L89M

### Protease Inhibitors

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

Mutation scoring: PR

No drug resistance mutations were found for PI.

Drug resistance interpretation: RT

NRTI Mutations: M184V NNRTI Mutations: Y181F :::: H221Y ::::

RT Other Mutations: K11A - K20R - V35T - E36D - T39E - K49R - P39PL - K122E - D123N - T139R - S162A - F171Y - K173S - D177G - V179I - T200A - F202Y - Q207A - R211K - F207A - F207

## **Nucleoside Reverse Transcriptase Inhibitors**

Susceptible

Low-Level Resistance Susceptible Susceptible Potential Low-Level Resistance High-Level Resistance High-Level Resistance

Non-nucleoside Reverse Transcriptase Inhibitors

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

# RT comments

abacavir (ABC)

zidovudine (AZT)

stavudine (D4T)

didanosine (DDI)

lamivudine (3TC)

tenofovir (TDF)

emtricitabine (FTC)

# NRTI

NNRTI

• 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.

- Y181F/S/G are rare non-polymorphic NNRTI-associated mutations that are usually present as part of an electrophoretic mixture. They are likely to represent transitional mutations between Y and I or V.
- H221Y is a non-polymorphic accessory mutation selected primarily by NVP, RPV, and DOR. It frequently occurs in combination with Y181C.

- . V179I is a polymorphic mutation that is frequently selected in persons receiving ETR and RPV. However, it has little, if any, direct effect on NNRTI susceptibility.
- . This virus is predicted to have intermediate-level reduced susceptibility to RPV. The use of the combination of CAB/RPV should be considered to be contraindicated.

Mutation scoring: RT

HIVDB 9.5.1 (2023-11-05)

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rug resi	stance mutation scores of NRTI:				Do	Download CSV		
Rule	ABC ‡	AZT ≑	D4T ÷	DDI ÷	FTC ÷	3TC ≑	TD	
M184V	15	-10	-10	10	60	60	-1	

Drug	resistan	ICC.	mutai	DOM:	SCO	C3 I	21 1	LIVING I.

-					
Rule	DOR ÷	EFV ÷	ETR ÷	NVP ≑	RPV ≑
H221Y	10	10	10	15	15
Y181F	0	15	15	60	30
Total	10	25	25	75	45