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

PI Major Mutations: None

PLAccessory Mutations:

PR Other Mutations:

Protease Inhibitors

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

Mutation scoring: PR

No drug resistance mutations were found for PI.

Drug resistance interpretation: RT

V75M - M184V - T215C NRTI Mutations:

NNRTI Mutations: V108I --- H221Y ---

RT Other Mutations:

Nucleoside Reverse Transcriptase Inhibitors Low-Level Resistance abacavir (ABC) zidovudine (AZT)

Potential Low-Level Resistance Intermediate Resistance Intermediate Resistance High-Level Resistance

lamivudine (3TC) High-Level Resistance tenofovir (TDF) Susceptible

Non-nucleoside Reverse Transcriptase Inhibitors

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

RT comments

stavudine (D4T)

didanosine (DDI)

emtricitabine (FTC)

NRTI

- V75T/M/A/S are nonpolymorphic accessory NRTI-selected mutations. They appear to have minimal phenotypic effects on AZT, ABC, and TDF.
- 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.
- T215Y/F are TAMs that causes intermediate/high-level resistance to AZT and potentially low-level resistance

NNRTI

- V108I is a relatively non-polymorphic accessory mutation selected in vitro and/or in vivo with each of the NNRTIs. It appears to contribute to reduced susceptibility to most NNRTIs only in combination with other NNRTI-resistance mutations. . H221Y is a non-polymorphic accessory mutation selected primarily by NVP, RPV, and DOR. It frequently occurs in combination with Y181C.

Other

- . V118I is a polymorphic accessory NRTI-resistance mutation that often occurs in combination with multiple TAMs.
- 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.

Mutation scoring: RT

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rug resistance mutation scores of NRTI:						Download CSV		
Rule	ABC ‡	AZT ≑	D4T ≑	DDI 💠	FTC ÷	зтс ≑	TD	
M184V	15	-10	-10	10	60	60	-]	
V75M	0	10	30	15	0	0	(
T215C	0	10	20	10	0	0	-	
Total	15	10	40	35	60	60	-]	

urug resisio	ince mutation	Download CSV			
Rule	DOR ÷	EFV ÷	ETR ÷	NVP ≑	RPV ≑
V108I	10	10	0	15	0
H221Y	10	10	10	15	15
Total	20	20	10	30	15