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

PI Major Mutations: PI Accessory Mutations:

PR Other Mutations:

None None

113V ... K14R ... 617GE ... 617GE ... K20KR ... K20KR ... K20KR ... K20KR ... M36I ... M36I ... K45KR ... K45KR ... K45KR ... 657K ... 664V ... 664V ... H69K ... H69K ... 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 Susceptible nelfinavir (NFV) saquinavir/r (SQV/r) Susceptible tipranavir/r (TPV/r) Susceptible

## PR comments

## Other

K20R is a highly polymorphic PI-selected accessory mutation that increases replication fitness in viruses with PI-resistance mutations.

## Mutation scoring: PR

No drug resistance mutations were found for PI.

Drug resistance interpretation: RT

NRTI Mutations: M184V ... T215TF 1 100 1 100

NNRTI Mutations: A98AG a on A tra- K103KN v on K tra- Y181YC v or C are

RT Other Mutations: K11T - K20R - V21Im - V35T - T39K - K122E - D123S - T165L - K173S - D177E - T200TA - F211RS - F212D - F234D - F234

A554N 100% - V559VD V 100%, D 40%

### Nucleoside Reverse Transcriptase Inhibitors

abacavir (ABC)

zidovudine (AZT)

stavudine (D4T)

didanosine (DDI)

emtricitabine (FTC)

lamivudine (3TC)

tenofovir (TDF)

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

### Non-nucleoside Reverse Transcriptase Inhibitors

doravirine (DOR)

Intermediate Resistance
efavirenz (EFV)

etravirine (ETR)

nevirapine (NVP)

rilpivirine (RPV)

Intermediate Resistance
High-Level Resistance
High-Level Resistance

## RT comments

# NRTI

- 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 to ABC and TDF.

#### NNRTI

- A98G is a non-polymorphic accessory mutation associated with low-level reduced susceptibility to each of the NNRTIs.
- . K103N is a non-polymorphic mutation that confers high-level reductions in NVP and EFV susceptibility. It is the most commonly transmitted DRM.
- Y181C is a non-polymorphic mutation selected in persons receiving NVP, ETR and RPV. It confers high-level resistance to NVP, intermediate resistance to ETR and RPV, and low-level resistance to EFV. It does not significantly reduce DOR susceptibility.

### Mutation scoring: RT

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rug resisionce mutation scores or NRTI.					Download Cav			
Rule	ABC ‡	AZT ≑	D4T ≑	DDI 💠	FTC ≎	зтс ≑	TDF :	
M184V	15	-10	-10	10	60	60	-10	
T215TF	10	60	40	15	0	0	10	
Total	25	50	30	25	60	60	0	

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Rule	DOR ÷	EFV ÷	ETR ÷	NVP ≑	RPV ≑
ASBAG	15	15	10	30	15
A98AG + Y181YC	5	5	5	5	5
K103KN + Y181YC	5	0	0	0	0
<u> Y181YC</u>	10	30	30	60	45
K103KN	0	60	0	60	0
Total	35	110	45	155	65

INSTI Major Mutations: INSTI Accessory Mutations: IN Other Mutations:	None None V311 :::::::::::::::::::::::::::::::::::			
Integrase Strand Transfer Inhib	bitors			
bictegravir (BIC) cabotegravir (CAB) dolutegravir (DTG) elvitegravir (EVG) raltegravir (RAL)	Susceptible Susceptible Susceptible Susceptible Susceptible Susceptible			
IN comments				
Other				
M50I is a highly polymorphic mutation, which has a prevalence of 3% to 34% in INSTI-naïve persons depending on subtype. It has been selected in vitro by DTG and BIC in combination with R263K.				

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Drug resistance interpretation: IN

No drug resistance mutations were found for INSTI.