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

PI Major Mutations: None

PI Accessory Mutations: None

PR Other Mutations: L10LV Lorin, n. cm. * K20KR com, n. zm. * M36I com, n. cm. * R41K com, t. L63C com, * 164V com, t. 172V com, com, n. cm. * 164V com, t. 172V com, com, n. cm. * 164V com, t. 172V com, com, n. cm. * 164V com, t. 172V com, com, n. cm. * 164V com, t. 172V com, com, n. cm. * 164V com, t. 172V com, t.

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 saquinavir/r (SQV/r) Susceptible tipranavir/r (TPV/r) Susceptible

PR comments

Other

- L10I/V are polymorphic, PI-selected accessory mutations that increase the replication of viruses with other PI-resistance mutations.
- K20R is a highly polymorphic PI-selected accessory mutation that increases replication fitness in viruses with PI-resistance mutations.

Mutation scoring: PR

HIVDB 9.5.1 (2023-11-05)

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No drug resistance mutations were found for PI.

Drug resistance interpretation: RT

NNRTI Mutations: K103N

RT Other Mutations: V35T m * K49KR same are V60I m * A98S m * K101R m * K122E m * I135IT same D177G m * T200K m * Q207E m * R211K m * P243PAS same are V245K m * E248ED same a

abacavir (ABC) Low-Level Resistance
zidovudine (AZT) High-Level Resistance
stavudine (D4T) Intermediate Resistance

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

Low-Level Resistance

Non-nucleoside Reverse Transcriptase Inhibitors

doravirine (DOR)

efavirenz (EFV)

etravirine (ETR)

nevirapine (NVP)

rilpivirine (RPV)

Susceptible

High-Level Resistance

Susceptible

Susceptible

RT comments

tenofovir (TDF)

didanosine (DDI)

emtricitabine (FTC)

lamivudine (3TC)

NRTI

- . \$686 is a polymorphic mutation that is often selected in combination with K63R. It partially restores the replication defect associated with K63R.
- K70/E/Q/N/T/S/G cause low-leve resistance to ABC and TDF.
- T215Y/F are TAMs that causes intermediate/high-level resistance to AZT and potentially low-level resistance to ABC and TDF.

NNRTI

K103N is a non-polymorphic mutation that confers high-level reductions in NVP and EFV susceptibility. It is the most commonly transmitted DRM.

Mutation scoring: RT

Drug resistance mutation scores of NRTI:

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Rule	ABC ≑	AZT ≑	D4T ≑	DDI ÷	FTC ÷	зтс ≑	TDF 0	
K70KT	15	0	15	15	10	10	15	
T215F	10	60	40	15	0	0	10	
Total	25	60	55	30	10	10	25	

Drug resistance mutation scores of NNRTI:

 Rule
 DOR ≑
 EFV ≑
 ETR ≑
 NVP ≑
 RPV ≑

 K103N
 0
 60
 0
 60
 0

INSTI Major Mutations:	None						
INSTI Accessory Mutations:	None						
IN Other Mutations:	K7KQ = 17K = 0 200 * S17N = 15K * M50L = 15K * M50L = 15K * T112M = 15K						
Integrase Strand Transfer Inhibitors							
bictegravir (BIC)	Susceptible						
cabotegravir (CAB) dolutegravir (DTG)	Susceptible						
dolutegravir (DTG)	Susceptible						

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Susceptible Susceptible

Mutation scoring: IN

Drug resistance interpretation: IN

No drug resistance mutations were found for INSTI.

HIVDB 9.5.1 (2023-11-05)