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

PI Major Mutations: None PLAccessory Mutations:

None

K20R • E35D • M36I • R41K • R57K • H69K • V77I • 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 saquinavir/r (SQV/r) Susceptible Susceptible tipranavir/r (TPV/r)

PR comments

PR Other Mutations:

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: None NNRTI Mutations: None

RT Other Mutations:

K20R - V35T - T39Q - V60I - K122E - V60I - K122E - V60I - K123T - K173S - V179I - V179I - T200A - Q207A - R211S - F214L - A554S - V179I - V179

Nucleoside Reverse Transcriptase Inhibitors abacavir (ABC) Susceptible zidovudine (AZT) Susceptible stavudine (D4T) Susceptible didanosine (DDI) Susceptible emtricitabine (FTC) Susceptible lamivudine (3TC) Susceptible

Susceptible

Non-nucleoside Reverse Transcriptase Inhibitors

doravirine (DOR) Susceptible efavirenz (EFV) Susceptible etravirine (ETR) Susceptible nevirapine (NVP) Susceptible rilpivirine (RPV) Susceptible

RT comments

Mutation scoring: RT

tenofovir (TDF)

Other

. V179 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.

No drug resistance mutations were found for NRTI.

No drug resistance mutations were found for NNRTI.

Drug resistance interpretation: IN

INSTI Major Mutations: None

INSTI Accessory Mutations: D6DN 0 85% N 190 N 2217 W 1 1 25 N 2217 W 1 25 IN Other Mutations:

Integrase Strand Transfer Inhibitors

bictegravir (BIC)

Susceptible cabotegravir (CAB) Susceptible dolutegravir (DTG) Susceptible elvitegravir (EVG) Susceptible raltegravir (RAL) Susceptible

IN comments

Mutation scoring: IN

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. It may contribute to reduced DTG and CAB susceptibility in combination with R263K.

No drug resistance mutations were found for INSTI.

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