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

PI Major Mutations: None PI Accessory Mutations:

PR Other Mutations: L10I ::::: 13V :::: E35D :::: M36I ::::: R41K :::: 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 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.

Mutation scoring: PR HIVDB 9.5.1 (2023-11-05)

No drug resistance mutations were found for PI.

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

D67ES 1 178, 1 28% • T215C 1006 • K219E 1006 NRTI Mutations: NNRTI Mutations: K103N -- V179T -- Y181V --

RT Other Mutations: K11T - K20KR - 120ZV -

Nucleoside Reverse Transcriptase Inhibitors

abacavir (ABC) Potential Low-Level Resistance zidovudine (AZT) Intermediate Resistance stavudine (D4T) Intermediate Resistance didanosine (DDI) Low-Level Resistance Susceptible emtricitabine (FTC)

lamivudine (3TC) Susceptible

tenofovir (TDF) Potential Low-Level Resistance

Non-nucleoside Reverse Transcriptase Inhibitors

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

RT comments

NRTI

- D67N is a non-polymorphic TAM associated with low-level resistance to AZT. D67G/E/S/T/H are non-polymorphic NRTI-selected mutations that generally occur in viruses with multiple TAMs.
- T215Y/F are TAMs that causes intermediate/high-level resistance to AZT and potentially low-level resistance to AZT and Date (International Properties of the patient of the patie
- . K219E/Q/N/R are accessory TAMS that usually occur in combination with multiple other TAMs.

NNRTI

- K103N is a non-polymorphic mutation that confers high-level reductions in NVP and EFV susceptibility. It is the most commonly transmitted DRM.
- V179T is a rare non-polymorphic mutation occasionally selected in persons receiving NNRTIs. It is associated with minimal, if any, reduction in ETR and RPV susceptibility.
- . Y1811/V are 2-base pair non-polymorphic mutations selected by NVP and ETR. They cause high-level resistance to NVP, ETR, and RPV but not EFV. Their effects on DOR have not been well-characterized.

T69N/S/A/I/E are relatively non-polymorphic mutations weakly selected in persons receiving NRTIs. They may minimally contribute reduced AZT susceptibility.

Mutation scoring: RT HIVDB 9.5.1 (2023-11-05)

Rule ABC

AZT

D4T

D4T DDI
FTC
3TC 15 10 0 10 10 5 K219E 5 0 0 10 20 10 0 0

Total 10 35 40 20 0 0

Drug resistance mutation scores of NRTI:

rug resistance mutation scores of NNRT1:				Download CSV	
Rule	DOR ‡	EFV ‡	ETR ÷	NVP ≑	RPV ≑
<u> Y181V</u>	20	30	60	60	60
K103N	0	60	0	60	0
Total	20	90	60	120	60

Drug resistance interpretation: IN

INSTI Major Mutations:

INSTI Accessory Mutations:

None

None

Susceptible

IN Other Mutations:

Integrase Strand Transfer Inhibitors

Susceptible bictegravir (BIC)

cabotegravir (CAB) Susceptible

dolutegravir (DTG) Susceptible Susceptible

elvitegravir (EVG) raltegravir (RAL)

IN comments

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.

E11D === * K14R === * \$175T === * \$175V == * \$175V === * \$175V == * \$175V === * \$175V ===

Mutation scoring: IN

HIVDB 9.5.1 (2023-11-05)

HIVDB 9.5.1 (2023-11-05)

No drug resistance mutations were found for INSTI.