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

PI Major Mutations: PI Accessory Mutations: None

PR Other Mutations: 113V 2004 * K14R 2004 * E35D 2004 * M36I 2004 * R41K 2004 * R57K 2004 * L63P 2004 * H69K 2004 * L89M 2004

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 Susceptible tipranavir/r (TPV/r)

Mutation scoring: PR

HIVDB 9.5.1 (2023-11-05)

No drug resistance mutations were found for PI.

Drug resistance interpretation: RT

K103N - M230L NNRTI Mutations:

RT Other Mutations:

\$519N == . Q524K == . K527G == . E529D == . A534S == . K540KR <= . A554S == . V559I == . V559I == .

Nucleoside Reverse Transcriptase Inhibitors

abacavir (ABC) Susceptible zidovudine (AZT) Susceptible stavudine (D4T) Susceptible didanosine (DDI) Susceptible emtricitabine (FTC) Susceptible lamivudine (3TC) Susceptible tenofovir (TDF) Susceptible

Non-nucleoside Reverse Transcriptase Inhibitors

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

RT comments

NNRTI

- K103N is a non-polymorphic mutation that confers high-level reductions in NVP and EFV susceptibility. It is the most commonly transmitted DRM.
- M230L is an uncommon non-polymorphic mutation selected in persons receiving EFV, NVP, and RPV. It causes intermediate to high-level resistance to each of the NNRTIs.

Other

- T69N/S/A/L/E are relatively non-polymorphic mutations weakly selected in persons receiving NRTIs. They may minimally contribute reduced AZT susceptibility.
- . V90I is a polymorphic accessory mutation weakly selected by each of the NNRTIs. It is associated with minimal, if any, detectable reduction in NNRTI susceptibility.
- L100I is a non-polymorphic mutation that usually occurs in combination with K103N. In this setting it confers high-level resistance to ETR and DOR. L100V is a rare mutations that likely has effects similar to L100I. L100F is a highly unusual mutation at this position.
- V179I 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.

Mutation scoring: RT

HIVDB 9.5.1 (2023-11-05)

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No drug resistance mutations were found for NRTI.

ı	Drug resistance mutation scores of NNRTI:				Download CSV	
	Rule	DOR ÷	EFV ÷	ETR ÷	NVP ≑	RPV ≑
	M230L	60	45	30	60	60
	K103N	0	60	0	60	0
	Total	60	105	30	120	60

Drug resistance interpretation: IN

IN Other Mutations:

Mutation scoring: IN

HIVDB 9.5.1 (2023-11-05)

INSTI Major Mutations: INSTI Accessory Mutations:

D41N === * 160M === * 172V === * 112V === * 1234V == * 1234V === * 1234V == * 1234V === * 1234V =

Integrase Strand Transfer Inhibitors

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

No drug resistance mutations were found for INSTI.

HIVDB 9.5.1 (2023-11-05)