

Drug resistance interpretation: PRHIVDB 9.5.1 (2023-11-05)

PI Major Mutations:

PI Accessory Mutations:

PR Other Mutations:

None

None

L10I 100%
seen=26,135 • I13V 98%
seen=26,757 • K14R 99%
seen=26,802 • G16E 98%
seen=26,110 • K20R 99%
seen=26,583 • E35D 98%
seen=31,265 • M36I 98%
seen=31,265 • N37NS 940%
seen=31,265 D: 17% • R41K 99%
seen=31,267 • R57K 97%
seen=31,362 • L63V 98%
seen=28,617 • E65ED 040%
seen=27,636 D: 14% • H69K 99%
seen=26,583 • L89M 98%
seen=20,499

Protease Inhibitors

atazanavir/r (ATV/r)

Susceptible

darunavir/r (DRV/r)

Susceptible

lopinavir/r (LPV/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: PRHIVDB 9.5.1 (2023-11-05)

No drug resistance mutations were found for PI.

Drug resistance interpretation: RTHIVDB 9.5.1 (2023-11-05)

NRTI Mutations:

NNRTI Mutations:

RT Other Mutations:

E44D 97%
seen=11,670

K103N 97%
seen=22,657

E28EK 947%
seen=24,672 N: 17%
D: 23% • V35T 98%
seen=23,295 • T39D 98%
seen=24,110 • K102Q 98%
seen=9,730 • D121H 98%
seen=11,632 • K122KE 079%
seen=11,230 N: 23% • K173T 97%
seen=26,362 • Q174K 98%
seen=26,362 • D177E 98%
seen=26,750 • V179I 97%
seen=26,146 • T200A 98%
seen=23,142 • I202V 98%
seen=23,277 • Q207A 98%
seen=22,972 • R211S 98%
seen=14,761 • V245Q 98%
seen=25,490 • E248N 98%
seen=25,426 • A272P 97%
seen=25,391 • K281R 98%
seen=14,696 • T286A 97%
seen=11,144 • E291D 98%
seen=11,080 • I293V 98%
seen=11,004 • A304E 98%
seen=11,077 • E312N 98%
seen=12,009 • G335E 98%
seen=12,009 • M357K 98%
seen=938 • G359S 98%
seen=752 • K366R 98%
seen=487 • T369A 97%
seen=482 •

Nucleoside Reverse Transcriptase Inhibitors

abacavir (ABC)

Susceptible

zidovudine (AZT)

Susceptible

emtricitabine (FTC)

Susceptible

lamivudine (3TC)

Susceptible

tenofovir (TDF)

Susceptible

Non-nucleoside Reverse Transcriptase Inhibitors

doravirine (DOR)

Susceptible

efavirenz (EFV)

High-Level Resistance

etravirine (ETR)

Susceptible

nevirapine (NVP)

High-Level Resistance

rilpivirine (RPV)

Susceptible

RT comments

NRTI

- E44D is a relatively non-polymorphic accessory mutation; E44A is a nonpolymorphic accessory mutation. Each usually occurs with multiple 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.

Other

- 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: RTHIVDB 9.5.1 (2023-11-05)

No drug resistance mutations were found for NRTI.

Drug resistance mutation scores of NNRTI:

Rule	DOR ↕	EFV ↕	ETR ↕	NVP ↕	RPV ↕
K103N	0	60	0	60	0