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

PI Major Mutations: None
PI Accessory Mutations: None

PR Other Mutations: V11X • T12R • I13L • K14S • I15K • G16* • Q18E • L19A • E35D • M36L • R41K • R57K • L63T • H69K • L89M

Protease Inhibitors

Susceptible atazanavir/r (ATV/r) Susceptible darunavir/r (DRV/r) Susceptible fosamprenavir/r (FPV/r) indinavir/r (IDV/r) Susceptible lopinavir/r (LPV/r) Susceptible nelfinavir (NFV) Susceptible saquinavir/r (SQV/r) Susceptible tipranavir/r (TPV/r) Susceptible

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

No drug resistance mutations were found for Pl.

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

NRTI Mutations: V75I • K219Q

NNRTI Mutations: None

RT Other Mutations: G18S - E28G - V35T - T39N - E40D - K49R - I50V - V60I - T69S - D121H - K122E - I132L - S162C - D177E - I178V - T200A - Q207K - R211K - P217T - D218R - P226S - Y232M - E233N - A234 - H235S - D237* - K238Q - P243L - I244* - V245T - A246 - P247X - E248R - D250E - N255M - D256I - I257Y - I257Y

Q258R • K259V • L260V • V261E • G262S • K263Q • L264W

Nucleoside Reverse Transcriptase Inhibitors

| abacavir (ABC) | Potential Low-Level Resistance |
|---------------------|--------------------------------|
| zidovudine (AZT) | Low-Level Resistance |
| stavudine (D4T) | Low-Level Resistance |
| didanosine (DDI) | Potential Low-Level Resistance |
| emtricitabine (FTC) | Susceptible |
| lamivudine (3TC) | Susceptible |

Potential Low-Level Resistance

Non-nucleoside Reverse Transcriptase Inhibitors

doravirine (DOR)

efavirenz (EFV)

etravirine (ETR)

nevirapine (NVP)

rilpivirine (RPV)

Susceptible

Susceptible

Susceptible

RT comments

tenofovir (TDF)

NRTI

- V75I is a relatively non-polymorphic accessory mutation that often occurs in combination with the multi-NRTI resistance mutation Q151M. When it occurs alone, its clinical significance is uncertain.
- K219E/Q/N/R are accessory TAMS that usually occur in combination with multiple other TAMs.

Other

- T69N/S/A/I/E are relatively non-polymorphic mutations weakly selected in persons receiving NRTIs. They may minimally contribute reduced AZT susceptibility.
- I132M is an extremely rare non-polymorphic mutation associated with uncertain amount of reduced NVP and EFV susceptibility. I132L is a more common, non-polymorphic NNRTI-selected mutation that has not been well studied.
- L234I is a nonpolymorphic mutation selected in persons receiving NVP and EFV. It is also selected in vitro by ETR and DOR. In combination with V106A, it is associated with high-level DOR resistance. Its effect on susceptibility when it occurs alone has not been well characterized. L234del is a highly unusual mutation at this position.
- K238T/N are uncommon non-polymorphic mutations selected in persons receiving NVP and EFV usually in combination with K103N. Alone, K238T/N appear to have minimal effects on NNRTI susceptibility. K238Q is a highly unusual mutation at this position.

Mutation scoring: RT

HIVDB 9.5.1 (2023-11-05)

No drug resistance mutations were found for NNRTI.