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

PI Major Mutations: None PI Accessory Mutations: None

PR Other Mutations: V11G - T12V - 113G - K14R - 115T - Q18G - L19Q - K20" - A22E - L23A - L24Y - D25P - G27R - A28S - D29R - D30" - T31Q - V32A - L33Y - E35D - M36I - R41K - R57K - L63V - 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 Susceptible nelfinavir (NFV) saquinavir/r (SQV/r) Susceptible tipranavir/r (TPV/r) Susceptible

PR comments

Mutation scoring: PR

Other

- L24I is a non-polymorphic mutation selected by IDV and LPV. It contributes reduced susceptibility to ATV and LPV. L24F/M are uncommon non-polymorphic PI-selected mutations. L24F has a susceptibility profile similar to L24I. L24Y is a highly unusual mutation at this position.
- . V32I is a non-polymorphic mutation selected by LPV, ATV, and DRV which is associated with reduced susceptibility to each of these PIs. V32A is a highly unusual mutation at this position.

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No drug resistance mutations were found for PI.

Drug resistance interpretation: RT

NRTI Mutations: M184V

NNRTI Mutations: K101P • K103N

K11T · K20R · V21I · V35T · T39K · K43Q · T69N · D123N · P150S · 116TX · K173S · Q174K · D177E · 1178L · V179I · T200X · 1202V · Q207A · R211K · P217S · K220N · Q222S · K238X · L246A · P247A · E248R · N255* · D256Y · D256Y · D257T · Q258D · K259V · L260V · V261L RT Other Mutations:

Nucleoside Reverse Transcriptase Inhibitors

abacavir (ABC) Low-Level Resistance zidovudine (AZT) Susceptible stavudine (D4T) Susceptible

didanosine (DDI) Potential Low-Level Resistance emtricitabine (FTC) High-Level Resistance lamivudine (3TC) High-Level Resistance tenofovir (TDF)

Susceptible

Non-nucleoside Reverse Transcriptase Inhibitors

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

RT comments

NRTI

• M184V/I cause high-level in vitro resistance to 3TC and FTC and low/intermediate resistance to ABC (3-fold reduced susceptibility). M184V/I are not contraindications to continued treatment with 3TC or FTC because they increase susceptibility to AZT and TDF and are associated with clinically significant reductions in HIV-1 replication.

- . K101P is a non-polymorphic mutation that confers high-level resistance to NVP, EFV, RPV, and ETR. Its does not appear to reduce DOR susceptibility.
- K103N is a non-polymorphic mutation that confers high-level reductions in NVP and EPV susceptibility. It is the most commonly transmitted DRM.

Other

NNRTI

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

Drug resistance mutation scores of NNRTI:

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rug resi	stance mi	Download CSV					
Rule	ABC ‡	AZT ≑	D4T ÷	DDI ÷	FTC ÷	3ТС ≑	TDF :
M184V	15	-10	-10	10	60	60	-10

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Rule	DOR ‡	EFV ‡	ETR ÷	NVP ≑	RPV ≑
K101P	10	60	60	60	60
K103N	0	60	0	60	0
Total	10	120	60	120	60