

Drug resistance interpretation: PR

HIVDB 9.5.1 (2023-11-05)

PI Major Mutations:None

PI Accessory Mutations:Q58E

PR Other Mutations:L10X • V11S • T12\* • I13\* • K14I • I15W • G17K • Q18T • L19P • E21F • A22I • L23G • L24P • D25I • T26Q • G27R • A28T • D29Y • D30\* • M36I • N37Y • D60E • L63P • I64V

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)	Potential Low-Level Resistance
saquinavir/r (SQV/r)	Susceptible
tipranavir/r (TPV/r)	Low-Level Resistance

PR comments

Accessory

- Q58E is a minimally polymorphic accessory mutation selected by each of the PIs except DRV. In combination with other PI-resistance mutations, it may contribute to low-level ATV resistance.

Other

- L24I is a non-polymorphic mutation selected by IDV and LPV. It contributes reduced susceptibility to ATV 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. L24P is a highly unusual mutation at this position.

Mutation scoring: PR

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Drug resistance mutation scores of PI:

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Rule	ATV/r	DRV/r	FPV/r	IDV/r	LPV/r	NFV	SQV/r	TPV/r
Q58E	0	0	0	0	0	10	0	15

Drug resistance interpretation: RT

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NRTI Mutations:M41L • K65R • S68N • L74I • M184V

NNRTI Mutations:K103N • P225H

RT Other Mutations:K20R • V60I • D121Y • K122E • I135T • I142T • S162C • Q174E • Q207K • K219I • K220\* • K223R • L228Q • W239X • V245A • D250E • D256E • K263\* • W266\* • G273E • I274S • K275E • V276L • K281N • L282A • L283I • G285E • T286P • K287I • A288H • L289\* • T290Q • I293V • P294V

Nucleoside Reverse Transcriptase Inhibitors

abacavir (ABC)	High-Level Resistance
zidovudine (AZT)	Susceptible
stavudine (D4T)	High-Level Resistance
didanosine (DDI)	High-Level Resistance
emtricitabine (FTC)	High-Level Resistance
lamivudine (3TC)	High-Level Resistance
tenofovir (TDF)	Intermediate Resistance

Non-nucleoside Reverse Transcriptase Inhibitors

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

Drug resistance mutation scores of NRTI:

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Rule	ABC ⚡	AZT ⚡	D4T ⚡	DDI ⚡	FTC ⚡	3TC ⚡	TDF ⚡
<a href="#">M41L</a>	5	15	15	10	0	0	5
<a href="#">K65R</a>	45	-10	60	60	30	30	50
<a href="#">L74I</a>	15	0	0	60	0	0	5
<a href="#">M184V</a>	15	-10	-10	10	60	60	-10
<a href="#">K65R + S68N</a>	0	0	0	0	0	0	5
Total	80	-5	65	140	90	90	55

Drug resistance mutation scores of NNRTI:

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Rule	DOR ⚡	EFV ⚡	ETR ⚡	NVP ⚡	RPV ⚡
<a href="#">K103N + P225H</a>	10	0	0	0	0
<a href="#">P225H</a>	20	45	0	45	0
<a href="#">K103N</a>	0	60	0	60	0
Total	30	105	0	105	0