

Drug resistance interpretation: PR		HIVDB 9.5.1 (2023-11-05)
PI Major Mutations:	None	
PI Accessory Mutations:	None	
PR Other Mutations:	T12N • I13* • K14S • E21X • E35D • M36I • G40V • R41K • R57K • H69K • V82I • 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	
nelfinavir (NFV)	Susceptible	
saquinavir/r (SQV/r)	Susceptible	
tipranavir/r (TPV/r)	Susceptible	
PR comments		
Other		
<ul style="list-style-type: none"><li>V82I is a highly polymorphic mutation that is not selected by PIs. It is the consensus amino acid in subtype G viruses.</li></ul>		

Mutation scoring: PR	HIVDB 9.5.1 (2023-11-05)
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No drug resistance mutations were found for PI.

Drug resistance interpretation: RT	HIVDB 9.5.1 (2023-11-05)
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NRTI Mutations:	L74V • M184V		
NNRTI Mutations:	K103N • G190A		
RT Other Mutations:	E6K • K11T • K20R • V21I • V35T • T39R • E40K • K43E • E44K • G45V • V60I • D67K • R72K • G93R • K101Q • K122E • D123N • P170L • K173A • D177E • I178M • V179I • I195L • T200A • I202V • Q207N • R211K • P226S • L246T • P247A • E248R • K249Q • N255M • Δ256 • I257X • Q258I • K259Q • L260K • V261* • G262W • K263E • L264N • N265K • A267G • V276* • C280V • K281* • L282T • L283P • R284S • G285R • T286E • K287P • A288S • L289T		
Nucleoside Reverse Transcriptase Inhibitors		Non-nucleoside Reverse Transcriptase Inhibitors	
abacavir (ABC)	High-Level Resistance	doravirine (DOR)	Susceptible
zidovudine (AZT)	Susceptible	efavirenz (EFV)	High-Level Resistance
stavudine (D4T)	Susceptible	etravirine (ETR)	Potential Low-Level Resistance
didanosine (DDI)	High-Level Resistance	nevirapine (NVP)	High-Level Resistance
emtricitabine (FTC)	High-Level Resistance	rilpivirine (RPV)	Low-Level Resistance
lamivudine (3TC)	High-Level Resistance		
tenofovir (TDF)	Susceptible		

RT comments

NRTI

- **L74V** causes intermediate ABC resistance. L74I causes low-level ABC resistance.
- **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.

NNRTI

- **K103N** is a non-polymorphic mutation that confers high-level reductions in NVP and EFV susceptibility. It is the most commonly transmitted DRM.
- **G190A** is a non-polymorphic mutation that causes high-level resistance to NVP and intermediate resistance to EFV. It does not significantly reduce susceptibility to RPV, ETR, or DOR.

Other

- D67N is a non-polymorphic TAM associated with low-level resistance to AZT. D67G/E/S/T/H are non-polymorphic NRTI-selected mutations that generally occur in viruses with multiple TAMs. **D67K** is a highly unusual mutation at this position.
- **K101Q** is a relatively non-polymorphic mutation that is weakly selected in persons receiving NVP and EFV. It is of uncertain phenotypic and clinical significance.
- **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.

- This virus is predicted to have low-level reduced susceptibility to **RPV**. The use of the combination of CAB/**RPV** should be considered to be relatively contraindicated.

Mutation scoring: RT

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Drug resistance mutation scores of NRTI:

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Rule	ABC ↕	AZT ↕	D4T ↕	DDI ↕	FTC ↕	3TC ↕	TDF ↕
<a href="#">L74V</a>	30	0	0	60	0	0	0
<a href="#">L74V + M184V</a>	15	0	0	0	0	0	0
<a href="#">M184V</a>	15	-10	-10	10	60	60	-10
Total	60	-10	-10	70	60	60	-10

Drug resistance mutation scores of NNRTI:

Download CSV



Rule	DOR ↕	EFV ↕	ETR ↕	NVP ↕	RPV ↕
<a href="#">K103N</a>	0	60	0	60	0
<a href="#">G190A</a>	0	45	10	60	15
Total	0	105	10	120	15