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

HIVDB 9.5.1 (2023-11-05)

HIVDB 9.5.1 (2023-11-05)

PI Major Mutations: L9

PI Accessory Mutations: 673T

PR Other Mutations: L10I • N37D • K43R • D60E • L63P • A71V • V77I • I93L

Protease Inhibitors

atazanavir/r (ATV/r) Intermediate Resistance

darunavir/r (DRV/r) Susceptible

fosamprenavir/r (FPV/r)
Intermediate Resistance
Indinavir/r (IDV/r)
Intermediate Resistance
Iopinavir/r (LPV/r)
Low-Level Resistance
High-Level Resistance
saquinavir/r (SQV/r)
High-Level Resistance
Upranavir/r (TPV/r)
Susceptible

PR comments

Major

. L90M is a non-polymorphic PI-selected mutation that reduces susceptibility to ATV and to a lesser extent LPV.

Accessory

G73S/T/C/A are common non-polymorphic accessory mutations selected primarily by most PIs. They are associated with minimally reduced susceptibility to each of the PIs.

Other

- L10(V are polymorphic, PI-selected accessory mutations that increase the replication of viruses with other PI-resistance mutations.
- A71V/T are polymorphic, PI-selected accessory mutations that increase the replication of viruses with other PI-resistance mutations.

Mutation scoring: PR

Drug resistance mutation scores of PI

_	and testimine monthly serves of Pt.							Download Cav		
	Rule	ATV/r ≑	DRV/r ≎	FPV/r ≎	IDV/r ‡	LPV/r ≑	NFV ≑	SQV/r ≎	TPV/r ≎	
ľ	<u>G73T</u>	10	0	10	15	5	15	15	0	
	G73T + L90M	10	0	10	10	0	10	10	0	
ľ	L90M	25	0	20	30	15	60	45	0	
ľ	Total	45	0	40	55	20	85	70	0	

Drug resistance interpretation: RT

M41L • D67N • K70R • L74LI • T215F • K219Q

NNRTI Mutations: N

RT Other Mutations: K43Q • T69N • K122E • D177E • 1178M • G196E • E203D • Q207K • R211A • L228H • T240TP

Nucleoside Reverse T	ranscriptase Inhibitors	Non-nucleoside Reverse T	ranscriptase Inhi
abacavir (ABC)	High-Level Resistance	doravirine (DOR)	Sus
idovudine (AZT)	High-Level Resistance	efavirenz (EFV)	Susi
tavudine (D4T)	High-Level Resistance	etravirine (ETR)	Susi
idanosine (DDI)	High-Level Resistance	nevirapine (NVP)	Susi
mtricitabine (FTC)	Low-Level Resistance	rilpivirine (RPV)	Susc
mivudine (3TC)	Low-Level Resistance		
enofovir (TDF)	High-Level Resistance		

RT comments

NRTI Mutations:

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- M41L is a TAM that usually occurs with T215Y. In combination, M41L plus T215Y confer intermediate / high-level resistance to AZT and d4T and contribute to reduced dd1, ABC and TDF susceptibility.
- . D67N is a non-polymorphic TAM associated with low-level resistance to AZT.
- K70R is a TAM that confers intermediate resistance to AZT and contributes to reduced ABC and TDF susceptibility in combination with other TAMs.
- L74V causes intermediate ABC resistance. L74I causes low-level ABC resistance.
- T215Y/F are TAMs that causes intermediate/high-level resistance to AZT and potentially low-level resistance to ABC and TDF.
- 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.

Drug resistance mutation scores of NRTI:

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Rule	ABC ÷	AZT ≑	D4T ≑	DDI ÷	FTC ≑	зтс≑	TDF 0	
M41L	5	15	15	10	0	0	5	
M41L + D67N + T215F	5	5	5	5	0	0	5	
M41L+T215F	10	10	10	10	5	5	10	
D67N	5	15	15	5	0	0	5	
D67N + K70R + K219Q	10	15	10	10	10	10	10	
D67N + T215F + K219Q	5	5	5	5	0	0	5	
K70R	5	30	15	10	0	0	5	
L74LI	15	0	0	60	0	0	5	
T215F	10	60	40	15	0	0	10	
K2190	5	10	10	5	0	0	5	
K70R + T215F	0	0	5	5	0	0	0	
Total	75	165	130	140	15	15	65	

No drug resistance mutations were found for NNRTI.