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

PI Major Mutations:

LOOLM WATER, D. RES.

PI Accessory Mutations: Non

PR Other Mutations: 113V 1990 - G16GE 1-100, 1000 - M361 1990 - M37ND NATIO 1100 - R41RK SAND, 1200 - L63Q 1000 - 164V 1000 - 10

Protease Inhibitors

atazanavir/r (ATV/r) Low-Level Resistance
darunavir/r (DRV/r) Susceptible

lopinavir/r (LPV/r) Low-Level Resistance

PR comments

Major

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

Other

. L33I/V are minimally polymorphic mutations that do not appear to be selected by PIs or to reduce their susceptibility.

Mutation scoring: PR

HIVDB 9.5.1 (2023-11-05)

Drug resistance interpretation: RT

HIVDB 9.5.1 (2023-11-05)

 NRTI Mutations:
 L74LI | 100 to 1

RT Other Mutations: P45 km - E6D km - K11T km - K22KR | MARK | MA

A304E mm . • E308EQ quarte are • P345Q mm . • F346Y mm . • R356K mm . • M357IS a traction • R358K mm . • A360T mm . • T369V mm . • E370A mm . • T377Q mm

Nucleoside Reverse Transcriptase Inhibitors

Non-nucleoside Reverse Transcriptase Inhibitors

abacavir (ABC)	Intermediate Resistance	doravirine (DOR)	Intermediate Resistance
zidovudine (AZT)	Susceptible	efavirenz (EFV)	High-Level Resistance
emtricitabine (FTC)	High-Level Resistance	etravirine (ETR)	Susceptible
lamivudine (3TC)	High-Level Resistance	nevirapine (NVP)	High-Level Resistance
tenofovir (TDF)	Susceptible	rilpivirine (RPV)	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 EPV susceptibility. It is the most commonly transmitted DRM.
- . P225H is a non-polymorphic EFV-selected mutation that usually occurs in combination with K103N. The combination of P225H and K103N synergistically reduces NVP, EFV and DOR susceptibility.

Mutation scoring: RT

HIVDB 9.5.1 (2023-11-05)

Drug resista	rug resistance mutation scores of NRTI: Do		Download	ownload CSV	
Rule	ABC ÷	AZT ≑	FTC ÷	3TC ≑	TDF ‡
L74LI	15	0	0	0	5
M184V	15	-10	60	60	-10
Total	30	-10	60	60	-5

Drug resistance mutation scores of NNRTI:

wnload	CSV	-

Rule	DOR ÷	EFV ÷	ETR ÷	NVP ≑	RPV ÷
K103N + P225H	10	0	0	0	0
P225H	20	45	0	45	0
K103N	0	60	0	60	0
Total	30	105	0	105	0

Drug resistance interpretation: IN	
INSTI Major Mutations:	None
INSTI Accessory Mutations:	None
IN Other Mutations:	None
Integrase Strand Transfer Inhi	ibitors
bictegravir (BIC)	Susceptible
cabotegravir (CAB)	Susceptible
cabotegravir (CAB) dolutegravir (DTG)	Susceptible
elvitegravir (EVG)	Susceptible
elvitegravir (EVG) raltegravir (RAL)	Susceptible
i	

HIVDB 9.5.1 (2023-11-05)

No drug resistance mutations were found for INSTI.

Mutation scoring: IN