

PI Major Mutations:None

PI Accessory Mutations:None

PR Other Mutations:I13V 100%
pos=1,052 • I15V 100%
pos=1,262 • E35D 100%
pos=1,363 • M36I 100%
pos=1,363 • N37D 100%
pos=1,363 • K43KR 0-100%
N:149%
K:149%
pos=2,214 • R57K 100%
pos=2,214 • I62V 100%
pos=2,267 • L63P 100%
pos=2,363 • I64M 100%
pos=2,405 • H69K 100%
pos=2,405 • L89M 100%
pos=2,462

Protease Inhibitors	
atazanavir (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

No drug resistance mutations were found for PI.

NRTI Mutations:M184I 100%
pos=1,279

NNRTI Mutations:None

RT Other Mutations:K11T 100%
pos=1,216 • K20R 100%
pos=1,265 • V21I 100%
pos=1,265 • V35T 100%
pos=1,311 • K43Q 100%
pos=408 • V60I 100%
pos=432 • K122KE 0-170%
K:170%
N:170%
pos=432 • D123N 70%
pos=431 • T163I 100%
pos=523 • K173A 100%
pos=522 • Q174K 100%
pos=522 • D177E 100%
pos=522 • I178L 100%
pos=522 • T200TA 0-100%
T:100%
pos=522 • A554Q 100%
pos=140 • K558R 100%
pos=522

Nucleoside Reverse Transcriptase Inhibitors		Non-nucleoside Reverse Transcriptase Inhibitors	
abacavir (ABC)	Low-Level Resistance	doravirine (DOR)	Susceptible
zidovudine (AZT)	Susceptible	efavirenz (EFV)	Susceptible
stavudine (D4T)	Susceptible	etravirine (ETR)	Susceptible
didanosine (DDI)	Potential Low-Level Resistance	nevirapine (NVP)	Susceptible
emtricitabine (FTC)	High-Level Resistance	rilpivirine (RPV)	Susceptible
lamivudine (3TC)	High-Level Resistance		
tenofovir (TDF)	Susceptible		

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.

Drug resistance mutation scores of NRTI:

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Rule	ABC ⇅	AZT ⇅	D4T ⇅	DDI ⇅	FTC ⇅	3TC ⇅	TDF ⇅
M184I	15	-10	-10	10	60	60	-10

No drug resistance mutations were found for NNRTI.

INSTI Major Mutations:None

INSTI Accessory Mutations:None

IN Other Mutations:K14R 100%
pos=622 • I72V 100%
pos=629 • T112V 100%
pos=1532 • I113V 100%
pos=1532 • T124A 100%
pos=1524 • T125A 100%
pos=1524 • G134N 100%
pos=1521 • K136KH 0-100%
N:149%
K:149%
pos=621 • D167E 100%
pos=1532 • V201I 100%
pos=1754 • S283G 100%
pos=1832

Integrase Strand Transfer Inhibitors	
bictegravir (BIC)	Susceptible
cabotegravir (CAB)	Susceptible
dolutegravir (DTG)	Susceptible
elvitegravir (EVG)	Susceptible
raltegravir (RAL)	Susceptible

No drug resistance mutations were found for INSTI.