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

PI Major Mutations: None

PLAccessory Mutations: None

PR Other Mutations: K14KR ***** *** 115SV **** *** M36I *** ** R41K *** ** 162V *** ** L63P *** * V75I *** ** V82I *** ** 193L ***

Protease Inhibitors

Susceptible atazanavir/r (ATV/r) darunavir/r (DRV/r) Susceptible Susceptible fosamprenavir/r (FPV/r) Susceptible indinavir/r (IDV/r) lopinavir/r (LPV/r) Susceptible nelfinavir (NFV) Susceptible saquinavir/r (SQV/r) Susceptible Susceptible tipranavir/r (TPV/r)

PR comments

Other

VB21 is a highly polymorphic mutation that is not selected by Pts. It is the consensus amino acid in subtype G viruses.

HIVDB 9.5.1 (2023-11-05) Mutation scoring: PR

HIVDB 9.5.1 (2023-11-05)

No drug resistance mutations were found for PI.

Drug resistance interpretation: RT

M41NL N 800 1 170 * 5685N N 800 N 170 * L74V 100 * Y115F 100 * M184V 100 NRTI Mutations:

NNRTI Mutations: Y181C --- H221Y ----

V8I V35T V35T V35T V45R V60I K104KR V60I K104KR K122E C123E RT Other Mutations:

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

RT comments

NRTI

- . 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.
- L74V causes intermediate ABC resistance. L74I causes low-level ABC resistance.
- Y115F causes intermediate resistance to ABC and low-level resistance to TDF.
- 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:

- . Y181C is a non-polymorphic mutation selected in persons receiving NVP, ETR and RPV. It confers high-level resistance to NVP, intermediate resistance to ETR and RPV, and low-level resistance to EFV. It does not significantly reduce DOR susceptibility.
- . H221Y is a non-polymorphic accessory mutation selected primarily by NVP, RPV, and DOR. It frequently occurs in combination with Y181C.

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Other

. 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.

Mutation scoring: RT HIVDB 9.5.1 (2023-11-05)

Rule	ABC ÷	AZT ≑	D4T ÷	DDI ÷	FTC ÷	зтс ≑	TDF ÷
M41ML	5	15	15	10	0	0	5
L74V	30	0	0	60	0	0	0
L74V + M184V	15	0	0	0	0	0	0
<u>Y115F</u>	30	0	0	0	0	0	15
Y115F+M184V	15	0	0	0	0	0	5
M184V	15	-10	-10	10	60	60	-10
Total	110	5	5	80	60	60	15

Rule	DOR ‡	EFV ÷	ETR 💠	NVP ≑	RPV ≎
Y181C	10	30	30	60	45
Y181C+H221Y	10	0	0	0	10
H221Y	10	10	10	15	15
Total	30	40	40	75	70

Drug resistance interpretation: IN INSTI Major Mutations:

bictegravir (BIC)

Mutation scoring: IN

None

None

HIVDB 9.5.1 (2023-11-05)

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INSTI Accessory Mutations:

Integrase Strand Transfer Inhibitors

IN Other Mutations:

K14R === * M30L == * 172V == * E96ED === * 1112A == * 5119T == * 1124AG === * 1125A == * 6193R == * V201I == * 1206S == * 1206S == * 1208L == *

Susceptible

Susceptible

cabotegravir (CAB) dolutegravir (DTG) Susceptible

No drug resistance mutations were found for INSTI.

elvitegravir (EVG) Susceptible raltegravir (RAL) Susceptible