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

PI Major Mutations: None PLAccessory Mutations: L33F ×4

PR Other Mutations: T12TA = 10% A 10%

Protease Inhibitors

atazanavir/r (ATV/r) Susceptible Susceptible darunavir/r (DRV/r)

fosamprenavir/r (FPV/r) Potential Low-Level Resistance

indinavir/r (IDV/r) Susceptible lopinavir/r (LPV/r) Susceptible

nelfinavir (NFV) Potential Low-Level Resistance

saquinavir/r (SQV/r) Susceptible

tipranavir/r (TPV/r) Potential Low-Level Resistance

PR comments

Accessory

. L33F is a relatively non-polymorphic accessory mutation selected by each of the Pts. In combination with other Pt-resistance mutations, it is associated with reduced susceptibility to LPV, ATV, and DRV.

Mutation scoring: PR

L33F 5

Drug resistance mutation scores of PI: Download CSV Rule ATV/r

DRV/r

FPV/r

IDV/r

LPV/r

NFV

SQV/r

TPV/r

5 5

10 5

10

10

Drug resistance interpretation: RT

NRTI Mutations: None NNRTI Mutations: None

5

E6D *** K11T *** K20R *** *** T27S *** *** V60I *** *** K122E *** D123NS *** *** D123NS *** *** T39TA *** *** T39TA *** *** *** T39TA *** *** *** D177E *** *** D177E *** *** T200A *** *** C207A *** *** F214L *** *** *** A554ST *** *** T39TA *** *** T39TA *** *** T39TA *** T39 RT Other Mutations:

Nucleoside Reverse Transcriptase Inhibitors

abacavir (ABC) Susceptible Susceptible zidovudine (AZT) stavudine (D4T) Susceptible didanosine (DDI) Susceptible emtricitabine (FTC) Susceptible lamivudine (3TC) Susceptible tenofovir (TDF) Susceptible

Non-nucleoside Reverse Transcriptase Inhibitors

doravirine (DOR) Susceptible efavirenz (EFV) Susceptible etravirine (ETR) Susceptible nevirapine (NVP) Susceptible rilpivirine (RPV) Susceptible

No drug resistance mutations were found for NRTI.

No drug resistance mutations were found for NNRTI.

Drug resistance interpretation: IN

Mutation scoring; RT

INSTI Major Mutations: None INSTI Accessory Mutations:

IN Other Mutations:

Integrase Strand Transfer Inhibitors

Susceptible

cabotegravir (CAB) Susceptible dolutegravir (DTG) Susceptible

elvitegravir (EVG) Potential Low-Level Resistance Potential Low-Level Resistance raltegravir (RAL)

IN comments

Mutation scoring: IN

bictegravir (BIC)

Accessory

• T97A is a polymorphic INSTI-selected mutation that, depending on subtype, occurs in 1% to 5% of viruses from untreated persons. Alone, it has minimal effects on INSTI susceptibility but in combination with other major resistance mutations, it synergistically reduces susceptibility to each of the INSTIs.

Drug resistance mutation scores of INSTI:				Download CSV	
Rule	BIC ÷	CAB ≑	DTG ‡	EVG ‡	RAL ÷
T97A	0	0	0	10	10

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T97A 2079 K14R --- S17SN --- V31I --- L101I --- T112V --- T124A --- T125A --- G134N --- K136Q --- V201I --- K211R --- D256E --- R269K --

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