

INSTI Major Mutations:

INSTI Accessory Mutations:

IN Other Mutations:

N155H

None

L2W • K7R • R20K • V31I • L101I • T112V • T124A • T125A • F181L • V201I • K219N • N222K

Integrase Strand Transfer Inhibitors	
bictegravir (BIC)	Potential Low-Level Resistance
cabotegravir (CAB)	Low-Level Resistance
dolutegravir (DTG)	Potential Low-Level Resistance
elvitegravir (EVG)	High-Level Resistance
raltegravir (RAL)	High-Level Resistance

IN comments

Major

- N155H is a common nonpolymorphic INSTI-resistance mutations. It has been reported in a high proportion of persons developing VF and HIVDR while receiving RAL, EVG, DTG, and CAB. Alone, it reduces RAL and EVG susceptibility about 10 and 30-fold, respectively. It has minimal effect on susceptibility to DTG, BIC, and CAB.
- This virus is predicted to have low-level reduced susceptibility to CAB. The use of the combination of CAB/RPV should be considered to be relatively contraindicated.

Drug resistance mutation scores of INSTI:

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Rule	BIC ⚡	CAB ⚡	DTG ⚡	EVG ⚡	RAL ⚡
N155H	10	25	10	60	60