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

PI Major Mutations: None
PI Accessory Mutations: None

PR Other Mutations: P9X • L10C • V11Y • T12G • I13P • K14E • I15E • G16K • L19P • E35D • M36I • N37K • R41K • M46R • R57K • L63T • H69K • L89M

Protease Inhibitors

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

PR comments

tenofovir (TDF)

Other

- L10F is a common non-polymorphic, PI-selected accessory mutation associated with reduced in vitro susceptibility to LPV and DRV. L10I/V are polymorphic, PI-selected accessory mutations that increase the replication of viruses with other PI-resistance mutations. L10R/Y are rare, non-polymorphic PI-selected mutations. Their effects on PI susceptibility have not been well studied. L10C is a highly unusual mutation at this position.
- M46I/L are relatively non-polymorphic PI-selected mutations. In combination with other PI-resistance mutations, they are associated with reduced susceptibility to each of the PIs except DRV. M46R is a highly unusual mutation at this position.

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

No drug resistance mutations were found for PI.

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

NRTI Mutations: M184V • T215F

NNRTI Mutations: A98G • V108I • Y188H • G190A

Susceptible

RT Other Mutations: K11T • K20R • V21I • V35T • T39N • K43R • P52L • V60I • W88C • K101Q • K122E • D123N • I135T • K166* • K173A • D177E • V179I • Q182X • V189I • T200A • I202* • E203R • Q207A • R211S • K220N • \(\Delta 221 \) • Q222I • K223R • E224R • H235I •

P236* • D237Q • K238M • W239T • T240Y • V241S • Q242Y

Nucleoside Reverse Transcriptase Inhibitors

Non-nucleoside Reverse Transcriptase Inhibitors

abacavir (ABC)	Low-Level Resistance	doravirine (DOR)	Intermediate Resistance
zidovudine (AZT)	Intermediate Resistance	efavirenz (EFV)	High-Level Resistance
stavudine (D4T)	Intermediate Resistance	etravirine (ETR)	Low-Level Resistance
didanosine (DDI)	Low-Level Resistance	nevirapine (NVP)	High-Level Resistance
emtricitabine (FTC)	High-Level Resistance	rilpivirine (RPV)	Intermediate Resistance
lamivudine (3TC)	High-Level Resistance		

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 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.
- T215Y/F are TAMs that causes intermediate/high-level resistance to AZT and potentially low-level resistance to ABC and TDF.

NNRTI

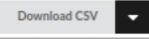
- A98G is a non-polymorphic accessory mutation associated with low-level reduced susceptibility to each of the NNRTIs.
- V108I is a relatively non-polymorphic accessory mutation selected in vitro and/or in vivo with each of the NNRTIs. It appears to contribute to reduced susceptibility to most NNRTIs only in combination with other NNRTI-resistance mutations.
- Y188H is a non-polymorphic mutation selected in persons receiving NVP and EFV. It causes about 5 to 10-fold reduced susceptibility to NVP and EFV. It appears to cause little if any reduction in susceptibility to RPV, ETR, or DOR.
- G190A is a non-polymorphic mutation that causes high-level resistance to NVP and intermediate resistance to EFV. It does not significantly reduce susceptibility to RPV, ETR, or DOR.

Other

- K101Q is a relatively non-polymorphic mutation that is weakly selected in persons receiving NVP and EFV. It is of uncertain phenotypic and clinical significance.
- 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.
- K238T/N are uncommon non-polymorphic mutations selected in persons receiving NVP and EFV usually in combination with K103N. Alone, K238T/N appear to have minimal effects on NNRTI susceptibility. K238M is a highly unusual mutation at this position.
- This virus is predicted to have intermediate-level reduced susceptibility to RPV. The use of the combination of CAB/RPV should be considered to be contraindicated.

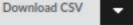
Mutation scoring: RT HIVDB 9.5.1 (2023-11-05)

Drug resistance mutation scores of NRTI:



Rule	ABC ≑	AZT ≑	D4T \$	DDI 💠	FTC ‡	3TC 	TDF \$
M184V	15	-10	-10	10	60	60	-10
<u>T215F</u>	10	60	40	15	0	0	10
Total	25	50	30	25	60	60	0

Drug resistance mutation scores of NNRTI:



Rule	DOR \$	EFV ≑	ETR \$	NVP \$	RPV \$
<u>A98G</u>	15	15	10	30	15
<u>V108I</u>	10	10	0	15	0
<u>Y188H</u>	5	30	0	60	0
G190A	0	45	10	60	15
Total	30	100	20	165	30

HIVDB 9.5.1 (2023-11-05)

PI Major Mutations: None
PI Accessory Mutations: None

Drug resistance interpretation: PR

PR Other Mutations: V11M • T12L • I13V • L19I • R41K • L63P • H69Q • V75I • V77I • I93L

Protease Inhibitors

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

Mutation scoring: PR

NRTI Mutations:

HIVDB 9.5.1 (2023-11-05)

HIVDB 9.5.1 (2023-11-05)

No drug resistance mutations were found for PI.

Drug resistance interpretation: RT

NNRTI Mutations: A98G • K101E • V108I • Y181C • G190A

M184V • T215L

RT Other Mutations: P4T • V35T • K49R • V60I • D121Y • K122Ε • I135T • S162C • D177Ε • V179I • T200I • Q207Ε • R211K • F214L • P217L • K219H • M230D • V241L • V245K • L246C • Δ247 • E248Q • D250Ε • D256* • I257F • Q258T • K259Ε • L260V

Nucleoside Reverse Transcriptase Inhibitors

Non-nucleoside Reverse Transcriptase Inhibitors

Hucteoside Reve	The Humbert peace Himbrer's	Holl Hacteoside Revel	se transcriptuse illinoitors
abacavir (ABC)	Low-Level Resistance	doravirine (DOR)	High-Level Resistance
zidovudine (AZT)	Susceptible	efavirenz (EFV)	High-Level Resistance
stavudine (D4T)	Potential Low-Level Resistance	etravirine (ETR)	High-Level Resistance
didanosine (DDI)	Low-Level Resistance	nevirapine (NVP)	High-Level Resistance
emtricitabine (FTC)	High-Level Resistance	rilpivirine (RPV)	High-Level Resistance
lamivudine (3TC)	High-Level Resistance		
tenofovir (TDF)	Susceptible		

NRTI

- M184V/I cause high-level in vitro 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.
- T215Y/F are TAMs that causes intermediate/high-level resistance to AZT and potentially low-level with a virus containing T215Y/F.

NNRTI

- A986 is a non-polymorphic accessory mutation associated with low-level reduced susceptibility to each of the NNRTIs.
- K101E is a non-polymorphic accessory mutation that confers intermediate resistance to NVP and RPV and low-level reductions in susceptibility to EFV, ETR, and DOR when it occurs with other NNRTI-resistance mutations.
- V108I is a relatively non-polymorphic accessory mutation selected in vitro and/or in vivo with each of the NNRTIs. It appears to contribute to reduced susceptibility to most NNRTIs only in combination with other NNRTI-resistance mutations.
- 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.
- G190A is a non-polymorphic mutation that causes high-level resistance to NVP and intermediate resistance to EFV. It does not significantly reduce susceptibility to RPV, ETR, or DOR.

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.
- K219E/O/N/R are accessory TAMS that usually occur in combination with multiple other TAMs. K219W is an uncommon NRTI-selected mutation. K219H is an unusual mutation at this position.
- M230L is an uncommon non-polymorphic mutation selected in persons receiving EFV, NVP, and RPV. It causes intermediate to high-level resistance to each of the NNRTIs. hypermutation resulting in viruses that are likely to be noninfectious. M230D is a highly unusual mutation at this position.

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

Drug resistance mutation scores of NRTI:

Download CSV

Rule	ABC \$	AZT \$	D4T ‡	DDI \$	FTC \$	3ТС ≑	TDF \$
M184V	15	-10	-10	10	60	60	-10
T215L	0	10	20	10	0	0	0
Total	15	0	10	20	60	60	-10

Drug resistance mutation scores of NNRTI:

Rule	DOR \$	EFV \$	ETR \$	NVP \$	RPV \$
<u>A98G</u>	15	15	10	30	15
A98G + Y181C	5	5	5	5	5
K101E	15	15	15	30	45
K101E + G190A	5	0	5	0	0
<u>V108I</u>	10	10	0	15	0
V108I + Y181C	5	0	0	0	0
<u>Y181C</u>	10	30	30	60	45
<u>Y181C + G190A</u>	10	0	10	0	10
K101E + Y181C	0	5	5	5	0
<u>G190A</u>	0	45	10	60	15
Total	75	125	90	205	135

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

PI Major Mutations: None PI Accessory Mutations: None

V11R • T12D • I13S • K14T • I15G • K20S • L23Y • L24* • D25I • T26R • G27S • A28D • D30H • T31Q • V32R • Δ34 • E35X • M36S • N37P • L38M • R41K • R57K • I62V • L63V • E65D • H69K • T74S • L89M PR Other Mutations:

Protease Inhibitors

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

PR comments

Other

- D30N is a non-polymorphic mutation NFV-selected mutation that causes high-level resistance to NFV but not to other Pls. D30H is a highly unusual mutation at this position.
- . V32I is a non-polymorphic mutation selected by LPV, ATV, and DRV which is associated with reduced susceptibility to each of these PIs. V32R is a highly unusual mutation at this position.
- . T74S is a PI-selected accessory mutation that is polymorphic in most non-B subtypes.

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

NRTI Mutations: L74V - Y115F - M184V

NNRTI Mutations: K103N • V108I • Y181C • H221Y • F227L • P236L

E6D • V35T • T39A • V60I • K101R • D123E • I135T • I142V • T165L • K173A • Q174K • D177E • I178M • E194D • T200A • Q207A • R211S • F214S • P225X • P226S • H235I • D237T • K238V • W239D • T240S • V241Q • Q242L • P243L • I244Q • V245L • \(\triangle \) \(RT Other Mutations:

K259T • L260E • V261I • G262V • K263R • L264N • N265L • W266T • A267G • I274T • K275E • K277N • K281Q

Nucleoside Reverse Transcriptase Inhibitors Non-nucleoside Reverse Transcriptase Inhibitors

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

NRTI

- 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.

NNRTI

- K103N is a non-polymorphic mutation that confers high-level reductions in NVP and EFV susceptibility. It is the most commonly transmitted DRM.
- V108I is a relatively non-polymorphic accessory mutation selected in vitro and/or in vivo with each of the NNRTIs. It appears to contribute to reduced susceptibility to most NNRTIs only in combination with other NNRTI-resistance mutations.
- . 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.
- F227L is a non-polymorphic mutation that usually occurs in combination with V106A. It is selected in vivo and in vitro with both NVP and DOR. In this context it is associated with high-level reductions in EFV susceptibility. F227I/V are extremely rare mutations that have been selected in vitro by DOR.
- P236L is a rare mutation selected commonly by DLV, which appears to have little if any effect on current NNRTIs.

Other

K238T/N are uncommon non-polymorphic mutations selected in persons receiving NVP and EFV usually in combination with K103N. Alone, K238T/N appear to have minimal effects on NNRTI susceptibility. K238V is a highly unusual mutation at this position.

Drug resistance mutation scores of NRTI:

Mutation scoring: RT

Download CSV

Rule	ABC ≑	AZT ‡	D4T ≎	DDI 🗦	FTC ‡	зтс ≑	TDF ‡
<u>L74V</u>	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
<u>Y115F + M184V</u>	15	0	0	0	0	0	5
M184V	15	-10	-10	10	60	60	-10
Total	105	-10	-10	70	60	60	10

Drug resistance mutation scores of NNRTI:

Download CSV

Rule	DOR =	EFV \$	ETR ‡	NVP \$	RPV \$
K103N + Y181C	5	0	0	0	0
<u>V108I</u>	10	10	0	15	0
<u>V108I + Y181C</u>	5	0	0	0	0
<u>Y181C</u>	10	30	30	60	45
<u>Y181C + H221Y</u>	10	0	0	0	10
H221Y	10	10	10	15	15
<u>F227L</u>	60	15	0	30	0
P236L	10	0	0	0	0
K103N	0	60	0	60	0
Total	120	125	40	180	70

HIVDB 9.5.1 (2023-11-05)

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

PI Major Mutations: None
PI Accessory Mutations: None

PR Other Mutations: V11X • T12C • I13Q • K14* • G16A • L23Y • L24* • E35D • M36I • N37K • R41K • H69K • L89M

Protease Inhibitors

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

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

HIVDB 9.5.1 (2023-11-05)

No drug resistance mutations were found for PI.

Drug resistance interpretation: RT

NRTI Mutations: M41L • M184V • L210W • T215Y

NNRTI Mutations: K103N

RT Other Mutations: E28K • K32E • V35T • K49R • V60I • K122E • D123S • I135T • E169A • K173S • Q174K • D177E • T200A • I202V • Q207A • K219X • E224D • P226S • L228R • E233D • L234S • H235S • P236D • D237S • K238D • W239S • T240H • V241Y • Q242K • P243L • I244Q • V245K • L246R • P247E • E248L • K249T •

D250V • S251M

Nucleoside Reverse Transcriptase Inhibitors

abacavir (ABC)

zidovudine (AZT)

stavudine (D4T)

didanosine (DDI)

emtricitabine (FTC)

lamivudine (3TC)

tenofovir (TDF)

High-Level Resistance

High-Level Resistance

High-Level Resistance

High-Level Resistance

Non-nucleoside Reverse Transcriptase Inhibitors

doravirine (DOR)

efavirenz (EFV)

etravirine (ETR)

nevirapine (NVP)

rilpivirine (RPV)

Susceptible

High-Level Resistance

Susceptible

Susceptible

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 ddl, ABC and TDF susceptibility.
- M184V/I cause high-level in vitro resistance to ATC and FTC and low/intermediate resistance to ABC (3-fold reduced susceptibility).
 M184V/I are not 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.
- L210W is a TAM that usually occurs in combination with M41L and T215Y. The combination of M41, L210W and T215Y causes high-level resistance to AZT and intermediate resistance to ABC and TDF.
- T215Y/F are TAMs that causes intermediate/high-level resistance to AZT and potentially low-level resistance to ABC and TDF.

NNRTI

K103N is a non-polymorphic mutation that confers high-level reductions in NVP and EFV susceptibility. It is the most commonly transmitted DRM.

Other

- L234I is a nonpolymorphic mutation selected in persons receiving NVP and EFV. It is also selected in vitro by ETR and DOR. In combination with V106A, it is associated with high-level DOR resistance. Its effect on susceptibility when it occurs alone has not been well characterized. L234S is a highly unusual mutation at this position.
- P236L is a rare mutation selected commonly by DLV, which appears to have little if any effect on current NNRTIs. P236D is a highly unusual mutation at this position.
- K238T/N are uncommon non-polymorphic mutations selected in persons receiving NVP and EFV usually in combination with K103N. Alone, K238T/N appear to have minimal effects on NNRTI susceptibility. K238D is a highly unusual mutation at this position.

Drug resistance mutation scores of NRTI:

Download CSV

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Rule	ABC ≑	AZT ≑	D4T ≑	DDI 🗦	FTC ≎	зтс ≑	TDF ÷
M41L	5	15	15	10	0	0	5
M41L + M184V + T215Y	10	0	0	0	0	0	0
M41L + L210W	10	10	10	10	0	0	10
M41L + L210W + T215Y	10	0	0	0	15	15	10
M41L + T215Y	10	10	10	10	5	5	10
M184V	15	-10	-10	10	60	60	-10
<u>L210W</u>	5	15	15	10	0	0	5
L210W + T215Y	10	10	10	10	0	0	10
<u>T215Y</u>	10	60	40	15	0	0	10
Total	85	110	90	75	80	80	50

Drug resistance mutation scores of NNRTI:

Download CSV

 Rule
 DOR ⇒
 EFV ⇒
 ETR ⇒
 NVP ⇒
 RPV ⇒

 K103N
 0
 60
 0
 60
 0

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

PI Major Mutations: M46I • I47A

PI Accessory Mutations: F53L

PR Other Mutations: V11X • T12I • I13S • K14* • K20R • E35D • M36I • R41K • K45R • R57K • L63P • I64L • A71V • I72V

Protease Inhibitors

atazanavir/r (ATV/r) Low-Level Resistance

darunavir/r (DRV/r) Potential Low-Level Resistance

fosamprenavir/r (FPV/r) High-Level Resistance
indinavir/r (IDV/r) Low-Level Resistance
lopinavir/r (LPV/r) High-Level Resistance
nelfinavir (NFV) High-Level Resistance
saquinavir/r (SQV/r) Low-Level Resistance
tipranavir/r (TPV/r) Intermediate Resistance

PR comments

Major

- . M46I/L are relatively non-polymorphic PI-selected mutations. In combination with other PI-resistance mutations, they are associated with reduced susceptibility to each of the PIs except DRV.
- I47A is a non-polymorphic mutation selected by LPV. It usually occurs in combination with V32I and in this context it confers high-level resistance to LPV and low-level resistance to DRV.

Accessory

• F53L is a nonpolymorphic accessory mutation selected primarily by SQV, IDV, ATV and LPV. In combination with other mutations, It is associated with reduced susceptibility to ATV and possibly LPV. F53Y is an uncommon nonpolymorphic accessory PI-selected mutation that has not been well studied.

Other

. K20R is a highly polymorphic PI-selected accessory mutation that increases replication fitness in viruses with PI-resistance mutations.

Download CSV

A71V/T are polymorphic, PI-selected accessory mutations that increase the replication of viruses with other PI-resistance mutations.

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

Drug resistance mutation scores of PI:

Rule	ATV/r ≑	DRV/r 🕏	FPV/r =	IDV/r ≑	LPV/r =	NFV ÷	sqv/r =	TPV/r ≎
<u>M46I</u>	10	0	10	10	10	30	10	5
<u>F53L</u>	10	0	0	0	0	10	15	0
<u>147A</u>	0	10	60	15	60	30	0	30
Total	20	10	70	25	70	70	25	35

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

NRTI Mutations: L74V • Y115F • M184V • K219E

NNRTI Mutations: L1001 • K103N

RT Other Mutations: E6K • K32R • V35T • E40L • K43E • S48L • V60I • K70* • K122E • D123S • T139A • K173S • Q174K • T200A • Q207A • R211S • L228Q • V245H • L246C • P247R • △250 • L260* • V261W • G262E • △263 • L264X • N265* • W266L • A272K • I274L • K275R

Nucleoside Reverse Transcriptase Inhibitors

abacavir (ABC) High-Level Resistance zidovudine (AZT) Susceptible stavudine (D4T) Susceptible didanosine (DDI) High-Level Resistance emtricitabine (FTC) High-Level Resistance lamivudine (3TC) High-Level Resistance tenofovir (TDF) Low-Level Resistance

Non-nucleoside Reverse Transcriptase Inhibitors

doravirine (DOR)	Intermediate Resistance
efavirenz (EFV)	High-Level Resistance
etravirine (ETR)	Intermediate Resistance
nevirapine (NVP)	High-Level Resistance
rilpivirine (RPV)	High-Level Resistance

NRTI

- 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.
- K219E/Q/N/R are accessory TAMS that usually occur in combination with multiple other TAMs.

NNRTI

- . L100I is a non-polymorphic mutation that usually occurs in combination with K103N. In this setting it confers high-level resistance to NVP, EFV, and RPV and intermediate resistance to ETR and DOR.
- . K103N is a non-polymorphic mutation that confers high-level reductions in NVP and EFV susceptibility. It is the most commonly transmitted DRM.

Mutation scoring: RT

HIVDB 9.5.1 (2023-11-05)

Drug resistance mutation scores of NRTI:

Download CSV	Ŧ
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Rule	ABC ≎	AZT ≎	D4T ≎	DDI 🗦	FTC ‡	зтс ≑	TDF 🕏
<u>L74V</u>	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
<u>Y115F + M184V</u>	15	0	0	0	0	0	5
M184V	15	-10	-10	10	60	60	-10
K219E	5	10	10	5	0	0	5
Total	110	0	0	75	60	60	15

Drug resistance mutation scores of NNRTI:

	Download	CSV	*
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Rule	DOR \$	EFV \$	ETR \$	NVP \$	RPV \$
<u>L100I</u>	15	60	30	60	60
L100I + K103N	15	0	0	0	0
K103N	0	60	0	60	0
Total	30	120	30	120	60