

PatientID: HDR104

Okitobba 06, 2023

### Color Code

■ HR: High-Level Resistance    ■ PLR: Potential Low-Level Resistance  
■ LR: Low-Level Resistance    ■ IR: Intermediate Resistance  
■ S: Susceptible

DRUG.CLASS	DRUG	RESISTANCE.PROFILE	DRMS.above.20.percent.prevalence
PI	ATV	S	
	DRV	S	
	FPV	S	
	IDV	S	
	LPV	S	
	NFV	S	
	SQV	S	
	TPV	S	
NRTI	ABC	LR	K70R;M184V;K219Q
	AZT	IR	
	D4T	LR	
	DDI	LR	
	FTC	HR	
	LMV	HR	
	TDF	S	
NNRTI	DOR	HR	Y181C;H221Y;F227I;K101H
	EFV	HR	
	ETR	IR	
	NVP	HR	
	RPV	HR	

## Appendix

### Drug abbreviations in full

DRUG.CLASS	ABBREVIATION	DRUG.NAME
<b>PI</b>	ATV	Atazanavir
	DRV	Darunavir
	FPV	Fosamprenavir
	IDV	Indinavir
	LPV	Lopinavir
	NFV	Nelfinavir
	SQV	Saquinavir
	TPV	Tipranavir
<b>NRTI</b>	ABC	Abacavir
	AZT	Azidothymidine
	DFT	Stavudine
	DDI	Didanosine
	FTC	Emtricitabine
	LMV	Lamivudine
	TDF	Tenofovir
<b>NNRTI</b>	DOR	Doravirine
	EFV	Efavirenz
	ETR	Etravirine
	NVP	Nevirapine
	RPV	Rilpivirine
<b>INSTI</b>	BIC	Bictegravir
	CAB	Cabotegravir
	DTG	Dolutegravir
	EVG	Elvitegravir
	RAL	Raltegravir

### Comments

DRUG.CLASS	COMMENTS
<b>PI</b>	
<b>NRTI</b>	K219E/Q/N/R are accessory TAMs that usually occur in combination with multiple other TAMs.
	K70R is a TAM that confers intermediate resistance to AZT and contributes to reduced ABC and TDF susceptibility in combination with other TAMs.
	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.
	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 NVP and DOR susceptibility and intermediate reductions in EFV susceptibility. F227I/V are extremely rare mutations that have been selected in vitro by DOR.
	H221Y is a non-polymorphic accessory mutation selected primarily by NVP, RPV, and DOR. It frequently occurs in combination with Y181C.

<b>NNRTI</b>	K101H is a non-polymorphic accessory mutation selected by NVP, EFV and ETR. When present with other NNRTI-resistance mutations, it contributes reduces susceptibility to these NNRTIs.
	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.
<b>INSTI</b>	