

# Interactions with Protease Inhibitors

Charts revised May 2019. Full information available at [www.hiv-druginteractions.org](http://www.hiv-druginteractions.org)

Page 1 of 5

Please note that if a drug is not listed it cannot automatically be assumed it is safe to coadminister.

	ATV	ATV/c	ATV/r	DRV/c	SYM	DRV/r	FPV	IDV	LPV	RTV	SQV	TPV
<b>Anaesthetics &amp; Muscle Relaxants</b>												
Alcuronium	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Bupivacaine	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Cisatracurium	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Desflurane	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Dexmedetomidine	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Enflurane	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Ephedrine	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Halothane	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Isoflurane	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Ketamine	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Nitrous oxide	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Propofol	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Rocuronium	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Sevoflurane	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Sufentanil	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Suxamethonium (succinylcholine)	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Tetracaine	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Thiopental	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Tizanidine	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Vecuronium	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
<b>Analgesics</b>												
Alfentanil	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Aspirin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Buprenorphine	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Celecoxib	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Codeine	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Dextropropoxyphene	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Diamorphine (diacetylmorphine)	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Diclofenac	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Dihydrocodeine	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Fentanyl	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Hydrocodone	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Hydromorphone	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Ibuprofen	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Mefenamic acid	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Methadone	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Morphine	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Naproxen	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Nimesulide	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Oxycodone	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Paracetamol (Acetaminophen)	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Pethidine (Meperidine)	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Piroxicam	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Tapentadol	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Tramadol	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
<b>Anthelmintics</b>												
Albendazole	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Diethylcarbamazine	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Ivermectin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Levamisole (Ergamisol)	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Mebendazole	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Niclosamide	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Oxamniquine	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Praziquantel	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Pyrantel	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Suramin sodium	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Triclabendazole	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
<b>Antiarrhythmics</b>												
Amiodarone	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Bepidil	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Disopyramide	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Dofetilide	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Flecainide	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Lidocaine (Lignocaine)	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Mexiletine	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Propafenone	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Quinidine	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦

For personal use only. Not for distribution.

	ATV	ATV/c	ATV/r	DRV/c	SYM	DRV/r	FPV	IDV	LPV	RTV	SQV	TPV
<b>Antibacterials</b>												
Amikacin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Amoxicillin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Ampicillin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Azithromycin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Bedaquiline	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Capreomycin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Cefalexin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Cefazolin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Cefixime	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Cefotaxime	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Ceftazidime	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Ceftriaxone	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Chloramphenicol	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Ciprofloxacin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Clarithromycin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Clavulanic acid	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Clindamycin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Clofazimine	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Cloxacillin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Cycloserine	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Dapsone	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Delamanid	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Doxycycline	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Ertapenem	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Erythromycin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Ethambutol	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Ethionamide	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Flucloxacillin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Gentamicin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Imipenem/Cilastatin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Isoniazid	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Kanamycin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Levofloxacin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Linezolid	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Meropenem	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Metronidazole	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Moxifloxacin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Nitrofurantoin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Ofloxacin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Para-aminosalicylic acid	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Penicillins	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Pyrazinamide	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Rifabutin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Rifampicin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Rifapentine	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Rifaximin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Spectinomycin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Streptomycin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Sulfadiazine	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Telithromycin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Tetracyclines	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Trimethoprim/Sulfamethoxazole	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Vancomycin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
<b>Anti-coagulant, Anti-platelet and Fibrinolytic</b>												
Acenocoumarol	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Apixaban	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Aspirin (anti-platelet)	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Betrixaban	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Clopidogrel	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Dabigatran	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Dalteparin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Dipyridamole	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Edoxaban	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Eltrombopag	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Enoxaparin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Fondaparinux	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Heparin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Phenprocoumon	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Prasugrel	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Rivaroxaban	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Streptokinase	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Ticagrelor	♦	♦	♦									





# Interactions with Protease Inhibitors

Charts revised May 2019. Full information available at [www.hiv-druginteractions.org](http://www.hiv-druginteractions.org)

Please note that if a drug is not listed it cannot automatically be assumed it is safe to coadminister.

	ATV	ATV/c	ATV/r	DRV/c	SYM	DRV/r	FPV	IDV	LPV	RTV	SQV	TPV
<b>Contraceptives/HRT</b>												
Desogestrel (COC)	■	■	▲	■	■	■	■	■	■	■	■	■
Desogestrel (POP)	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Drospirenone (COC)	■	●	▲	■	■	■	■	■	■	■	■	■
Drospirenone (HRT)	■	■	■	■	■	■	■	■	■	■	■	■
Dydrogesterone (HRT)	■	■	■	■	■	■	■	■	■	■	■	■
Estradiol	■	■	■	■	■	■	■	■	■	■	■	■
Ethinylestradiol	■	■	■	■	■	■	■	■	■	■	■	■
Etonogestrel (implant)	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Etonogestrel (vaginal ring)	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Gestodene (COC)	■	■	▲	■	■	■	■	■	■	■	■	■
Levonorgestrel (COC)	■	■	▲	■	■	■	■	■	■	■	■	■
Levonorgestrel (emergency contraception)	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Levonorgestrel (HRT)	■	■	■	■	■	■	■	■	■	■	■	■
Levonorgestrel (implant)	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Levonorgestrel (IUD)	■	■	■	■	■	■	■	■	■	■	■	■
Levonorgestrel (POP)	■	▲	▲	■	■	■	■	■	■	■	■	■
Medroxyprogesterone (depot injection)	■	■	■	■	■	■	■	■	■	■	■	■
Medroxyprogesterone (oral)	■	■	■	■	■	■	■	■	■	■	■	■
Norelgestromin (patch)	■	■	■	■	■	■	■	■	■	■	■	■
Norethisterone (Norethindrone) (COC)	■	■	▲	■	■	■	■	■	■	■	■	■
Norethisterone (Norethindrone) (HRT)	■	■	■	■	■	■	■	■	■	■	■	■
Norethisterone (Norethindrone) (IM depot)	■	■	■	■	■	■	■	■	■	■	■	■
Norethisterone (Norethindrone) (POP)	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Norgestimate (COC)	■	■	■	■	■	■	■	■	■	■	■	■
Norgestrel (COC)	■	■	▲	■	■	■	■	■	■	■	■	■
Norgestrel (HRT)	■	■	■	■	■	■	■	■	■	■	■	■
Ulipristal	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
<b>Erectile Dysfunctional Agents</b>												
Sildenafil (Erectile Dysfunction)	■	■	■	■	■	■	■	■	■	■	■	■
Tadalafil (Erectile Dysfunction)	■	■	■	■	■	■	■	■	■	■	■	■
Vardenafil	■	■	■	■	■	■	■	■	■	■	■	■
<b>Gastrointestinal Agents</b>												
Alosetron	■	■	■	■	■	■	■	■	■	■	■	■
Antacids	■	■	■	■	■	■	■	■	■	■	■	■
Bisacodyl	■	■	■	■	■	■	■	■	■	■	■	■
Cimetidine	■	■	■	■	■	■	■	■	■	■	■	■
Cisapride	■	■	■	■	■	■	■	■	■	■	■	■
Esomeprazole	■	■	■	■	■	■	■	■	■	■	■	■
Famotidine	■	■	■	■	■	■	■	■	■	■	■	■
Lactulose	■	■	■	■	■	■	■	■	■	■	■	■
Lansoprazole	■	■	■	■	■	■	■	■	■	■	■	■
Loperamide	■	■	■	■	■	■	■	■	■	■	■	■
Mesalazine	■	■	■	■	■	■	■	■	■	■	■	■
Omeprazole	■	■	■	■	■	■	■	■	■	■	■	■
Pantoprazole	■	■	■	■	■	■	■	■	■	■	■	■
Prucalopride	■	■	■	■	■	■	■	■	■	■	■	■
Rabeprazole	■	■	■	■	■	■	■	■	■	■	■	■
Ranitidine	■	■	■	■	■	■	■	■	■	■	■	■
Senna	■	■	■	■	■	■	■	■	■	■	■	■
<b>Gastrointestinal Agents (anti-emetics)</b>												
Aprepitant	■	■	■	■	■	■	■	■	■	■	■	■
Dolasetron	■	■	■	■	■	■	■	■	■	■	■	■
Domperidone	■	■	■	■	■	■	■	■	■	■	■	■
Dronabinol	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Granisetron	■	■	■	■	■	■	■	■	■	■	■	■
Metoclopramide	■	■	■	■	■	■	■	■	■	■	■	■
Ondansetron	■	■	■	■	■	■	■	■	■	■	■	■
Prochlorperazine	■	■	■	■	■	■	■	■	■	■	■	■
<b>Herbals/Supplements/Vitamins</b>												
African potato	▲	■	■	■	■	■	■	■	■	■	■	■
Aloe vera	■	■	■	■	■	■	■	■	■	■	■	■
Ascorbic Acid (vitamin C)	■	■	■	■	■	■	■	■	■	■	■	■
Calcium supplements	■	■	■	■	■	■	■	■	■	■	■	■
Cat's claw (Uncaria tomentosa)	■	■	■	■	■	■	■	■	■	■	■	■
Colecalciferol (vitamin D3)	■	■	■	■	■	■	■	■	■	■	■	■
Cubeb pepper (Piper cubeba)	▲	■	■	■	■	■	■	■	■	■	■	■
Cyanocobalamin	■	■	■	■	■	■	■	■	■	■	■	■
Echinacea	■	■	■	■	■	■	■	■	■	■	■	■
Eucalyptus globulus	■	■	■	■	■	■	■	■	■	■	■	■
Folic acid	■	■	■	■	■	■	■	■	■	■	■	■
Garlic	■	■	■	■	■	■	■	■	■	■	■	■
Ginger (Zingiber officinale)	▲	■	■	■	■	■	■	■	■	■	■	■
Ginkgo biloba	■	■	■	■	■	■	■	■	■	■	■	■
Goldenseal root (Hydrastis canadensis)	■	■	■	■	■	■	■	■	■	■	■	■
Grapefruit juice	■	■	■	■	■	■	■	■	■	■	■	■

For personal use only. Not for distribution.

	ATV	ATV/c	ATV/r	DRV/c	SYM	DRV/r	FPV	IDV	LPV	RTV	SQV	TPV
<b>Herbals/Supplements/Vitamins (continued)</b>												
Hops (Humulus lupulus)	■	■	■	■	■	■	■	■	■	■	■	■
Inula racemosa	▲	■	■	■	■	■	■	■	■	■	■	■
Iodine	■	■	■	■	■	■	■	■	■	■	■	■
Iron supplements	■	■	■	■	■	■	■	■	■	■	■	■
Liquorice (Glycyrrhiza glabra)	▲	■	■	■	■	■	■	■	■	■	■	■
Magnesium supplements	■	■	■	■	■	■	■	■	■	■	■	■
Malabar nut tree	■	■	■	■	■	■	■	■	■	■	■	■
Menthol	▲	■	■	■	■	■	■	■	■	■	■	■
Milk thistle (silymarin)	■	■	■	■	■	■	■	■	■	■	■	■
Multivitamins	■	■	■	■	■	■	■	■	■	■	■	■
Nicotinamide	■	■	■	■	■	■	■	■	■	■	■	■
Phytomenadione (vitamin K)	■	■	■	■	■	■	■	■	■	■	■	■
Pyridoxine (vitamin B6)	■	■	■	■	■	■	■	■	■	■	■	■
Quercetin	■	■	■	■	■	■	■	■	■	■	■	■
Retinol (vitamin A)	■	■	■	■	■	■	■	■	■	■	■	■
Riboflavin (vitamin B2)	■	■	■	■	■	■	■	■	■	■	■	■
Saw palmetto (Serenoa repens)	■	■	■	■	■	■	■	■	■	■	■	■
Seville orange juice	■	■	■	■	■	■	■	■	■	■	■	■
St John's Wort	■	■	■	■	■	■	■	■	■	■	■	■
Thiamine (vitamin B1)	■	■	■	■	■	■	■	■	■	■	■	■
Turmeric (Curcuma longa)	■	■	■	■	■	■	■	■	■	■	■	■
Valerian	■	■	■	■	■	■	■	■	■	■	■	■
Vitamin E	■	■	■	■	■	■	■	■	■	■	■	■
<b>Hypertension / Heart Failure Agents</b>												
Aiskiren	■	■	■	■	■	■	■	■	■	■	■	■
Ambrisentan	■	■	■	■	■	■	■	■	■	■	■	■
Amiloride	■	■	■	■	■	■	■	■	■	■	■	■
Bendroflumethiazide	■	■	■	■	■	■	■	■	■	■	■	■
Bosentan	■	■	■	■	■	■	■	■	■	■	■	■
Candesartan	■	■	■	■	■	■	■	■	■	■	■	■
Captopril	■	■	■	■	■	■	■	■	■	■	■	■
Chlorthalidone	■	■	■	■	■	■	■	■	■	■	■	■
Cilazapril	■	■	■	■	■	■	■	■	■	■	■	■
Clonidine	■	■	■	■	■	■	■	■	■	■	■	■
Digoxin	■	■	■	■	■	■	■	■	■	■	■	■
Dopamine	■	■	■	■	■	■	■	■	■	■	■	■
Doxazosin	■	■	■	■	■	■	■	■	■	■	■	■
Enalapril	■	■	■	■	■	■	■	■	■	■	■	■
Eplerenone	■	■	■	■	■	■	■	■	■	■	■	■
Epoprostenol	■	■	■	■	■	■	■	■	■	■	■	■
Erosartan	■	■	■	■	■	■	■	■	■	■	■	■
Fosinopril	■	■	■	■	■	■	■	■	■	■	■	■
Furosemide	■	■	■	■	■	■	■	■	■	■	■	■
Hydralazine	■	■	■	■	■	■	■	■	■	■	■	■
Hydrochlorothiazide	■	■	■	■	■	■	■	■	■	■	■	■
Iloprost	■	■	■	■	■	■	■	■	■	■	■	■
Indapamide	■	■	■	■	■	■	■	■	■	■	■	■
Irbesartan	■	■	■	■	■	■	■	■	■	■	■	■
Isosorbide dinitrate	■	■	■	■	■	■	■	■	■	■	■	■
Ivabradine	■	■	■	■	■	■	■	■	■	■	■	■
Labetalol	■	■	■	■	■	■	■	■	■	■	■	■
Lacidipine	■	■	■	■	■	■	■	■	■	■	■	■
Lercanidipine	■	■	■	■	■	■	■	■	■	■	■	■
Lisinopril	■	■	■	■	■	■	■	■	■	■	■	■
Losartan	■	■	■	■	■	■	■	■	■	■	■	■
Macitentan	■	■	■	■	■	■	■	■	■	■	■	■
Methyldopa	■	■	■	■	■	■	■	■	■	■	■	■
Metolazone	■	■	■	■	■	■	■	■	■	■	■	■
Olmesartan	■	■	■	■	■	■	■	■	■	■	■	■
Perindopril	■	■	■	■	■	■	■	■	■	■	■	■
Prazosin	■	■	■	■	■	■	■	■	■	■	■	■
Quinapril	■	■	■	■	■	■	■	■	■	■	■	■
Ramipril	■	■	■	■								

# Interactions with Protease Inhibitors

Charts revised May 2019. Full information available at [www.hiv-druginteractions.org](http://www.hiv-druginteractions.org)

Please note that if a drug is not listed it cannot automatically be assumed it is safe to coadminister.

	ATV	ATV/c	ATV/r	DRV/c	SYM	DRV/r	FPV	IDV	LPV	RTV	SQV	TPV
<b>Illicit/Recreational</b>												
Alcohol	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Amphetamine	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Cannabis	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Cocaine	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Ecstasy (MDMA)	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
GHB (Gamma-hydroxybutyrate)	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Heroin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
LSD (Lysergic acid diethylamide)	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Mephedrone	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Methamphetamine	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Phencyclidine (PCP)	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Poppers (Amyl nitrate)	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
<b>Immune Modulators</b>												
Hydroxyurea (Hydroxycarbamide)	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Interferon alpha	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Interleukin 2 (Aldesleukin)	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Peginterferon alfa-2a	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Peginterferon alfa-2b	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
<b>Immunosuppressants</b>												
Adalimumab	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Anti-thymocyte globulin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Azathioprine	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Basiliximab	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Belatacept	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Ciclosporin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Mycophenolate	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Sirolimus	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Tacrolimus	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
<b>Lipid Lowering Agents</b>												
Atorvastatin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Bezafibrate	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Clofibrate	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Evolocumab	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Ezetimibe	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Fenofibrate	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Fish oils	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Fluvastatin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Gemfibrozil	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Lovastatin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Pitavastatin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Pravastatin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Rosuvastatin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Simvastatin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
<b>Overactive Bladder Agents</b>												
Darifenacin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Fesoterodine	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Mirabegron	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Oxybutynin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Solifenacin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Tolterodine	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Trospium	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
<b>Oxytocics</b>												
Ergometrine (Ergonovine)	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Mifepristone	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Misoprostol	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Oxytocin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
<b>Parkinsonism Agents</b>												
Apomorphine	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Benserazide	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Carbidopa	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Levodopa	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Pramipexole	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Rasagiline	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Ropinirole	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
<b>Steroids</b>												
Beclomethasone	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Betamethasone	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Budesonide	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Clobetasol	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Dexamethasone	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Fludrocortisone	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Fluocinolone	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Fluticasone	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Hydrocortisone (oral)	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Hydrocortisone (topical)	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Megestrol acetate	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Methylprednisolone	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Mometasone	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Nandrolone	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Oxandrolone	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Prednisolone	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Prednisone	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Stanozolol	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Testosterone	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Triamcinolone	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦

For personal use only. Not for distribution.

	ATV	ATV/c	ATV/r	DRV/c	SYM	DRV/r	FPV	IDV	LPV	RTV	SQV	TPV
<b>Other</b>												
Acamprosate	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Acetazolamide	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Acitretin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Adrenaline (Epinephrine)	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Alendronic Acid	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Alfuzosin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Allopurinol	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Atropine	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Baclofen	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Betahistine	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Biperiden	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Caffeine citrate	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Cannabidiol (CBD)	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Carbamazole	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Clomifene	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Colchicine	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Cyproterone acetate	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Denosumab	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Disulfiram	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Dutasteride	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Finasteride	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Flibanserin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Glyceril trinitrate (Nitroglycerin)	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Goserelin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Ibandronic acid	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Isotretinoin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Leuprorelin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Levothyroxine	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Mannitol	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Methylphenidate	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Modafinil	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Nafidrofuryl	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Naloxone	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Naltrexone	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Neostigmine	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Nicorandil	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Oriostat	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Penicillamine	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Pentoxifylline	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Pilocarpine	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Potassium	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Probenecid	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Propylthiouracil	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Protamine sulphate	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Pyridostigmine	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Strontium ranelate	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Sulfasalazine	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Tamsulosin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Thalidomide	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Tranexamic acid	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Triptorelin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Varenicline	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Zoledronic acid	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦

**Key to abbreviations**

ATV	Atazanavir alone (Reyataz <sup>®</sup> )	DRV/r	Darunavir + Ritonavir (Prezista <sup>®</sup> +Norvir <sup>®</sup> )
ATV/c			