

Interactions with Protease Inhibitors

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
Anaesthetics & Muscle Relaxants												
Alcuronium												
Bupivacaine												
Cisatracurium												
Desflurane												
Dexmedetomidine												
Enflurane												
Ephedrine												
Halothane												
Isoflurane												
Ketamine												
Nitrous oxide												
Propofol												
Rocuronium												
Sevoflurane												
Sufentanil												
Suxamethonium (succinylcholine)												
Tetracaine												
Thiopental												
Tizanidine												
Vecuronium												
Analgesics												
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												
Anthelmintics												
Albendazole												
Diethylcarbamazine												
Ivermectin												
Levamisole (Ergamisol)												
Mebendazole												
Nicosamide												
Oxamniquine												
Praziquantel												
Pyrantel												
Suramin sodium												
Triclabendazole												
Antiarrhythmics												
Amiodarone												
Bepiridil												
Disopyramide												
Dofetilide												
Flecainide												
Lidocaine (Lignocaine)												
Mexiletine												
Propafenone												
Quinidine												

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	ATV	ATV/c	ATV/r	DRV/c	SYM	DRV/r	FPV	IDV	LPV	RTV	SQV	TPV
Antibacterials												
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												
Teiethromycin												
Tetracyclines												
Trimethoprim/Sulfamethoxazole												
Vancomycin												
Anti-coagulant, Anti-platelet and Fibrinolytic												
Acenocoumarol												
Apixaban												
Aspirin (anti-platelet)												
Betrixaban												
Clopidogrel												
Dabigatran												
Dalteparin												
Dipyridamole												
Edoxaban												
Eltrombopag												
Enoxaparin												
Fondaparinux												
Heparin												
Phenprocoumon												
Prasugrel												
Rivaroxaban												
Streptokinase												
Ticagrelor												
Warfarin												

Key to abbreviations

ATV	Atazanavir alone (Reyataz [®])	DRV/r	Darunavir + Ritonavir (Prezista [®] +Norvir [®])
ATV/c	Atazanavir/cobicistat (Evotaz [®])	FPV	Fosamprenavir (Telzir [®] , Lexiva [®])
ATV/r	Atazanavir + Ritonavir (Reyataz [®] +Norvir [®])	LPV	Lopinavir (Kaletra [®])
DRV/c	Darunavir/cobicistat (Rezolista [®] , Prezcoibix [®])	RTV	Ritonavir (Norvir [®])
SYM	Darunavir/cobicistat/FTC/TAF (Symtuza [®])	SQV	Saquinavir (Invirase [®])
		TPV	Tipranavir (Aptivus [®])

Key to symbols

●	These drugs should not be coadministered
■	Potential interaction – may require close monitoring, alteration of drug dosage or timing of administration
▲	Potential interaction likely to be of weak intensity. Additional action/monitoring or dosage adjustment is unlikely to be required
◆	No clinically significant interaction expected
♦	There are no clear data, actual or theoretical, to indicate whether an interaction will occur

Where advice differs between countries, and/or between boosted and unboosted regimens, the charts reflect the more cautious option.

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Charts revised February 2019. Full information available at www.hiv-druginteractions.org

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	ATV	ATV/c	ATV/r	DRV/c	SYM	DRV/r	FPV	IDV	LPV	RTV	SQV	TPV
Antivirals												
Aciclovir	+	+	+	+	+	+	+	+	+	+	+	+
Adefovir	+	+	+	+	+	+	+	+	+	+	+	+
Amantadine	+	+	+	+	+	+	+	+	+	+	+	+
Boceprevir	+	+	+	+	+	+	+	+	+	+	+	+
Cidofovir	+	+	+	+	+	+	+	+	+	+	+	+
Daclatasvir	+	+	+	+	+	+	+	+	+	+	+	+
Elbasvir/Grazoprevir	+	+	+	+	+	+	+	+	+	+	+	+
Entecavir	+	+	+	+	+	+	+	+	+	+	+	+
Famciclovir	+	+	+	+	+	+	+	+	+	+	+	+
Foscarnet	+	+	+	+	+	+	+	+	+	+	+	+
Ganciclovir	+	+	+	+	+	+	+	+	+	+	+	+
Glecaprevir/Pibrentasvir	+	+	+	+	+	+	+	+	+	+	+	+
Ledipasvir/Sofosbuvir	+	+	+	+	+	+	+	+	+	+	+	+
Ombitasvir/Paritaprevir/r	+	+	+	+	+	+	+	+	+	+	+	+
Ombitasvir/Paritaprevir/r + Dasabuvir	+	+	+	+	+	+	+	+	+	+	+	+
Oseltamivir	+	+	+	+	+	+	+	+	+	+	+	+
Ribavirin	+	+	+	+	+	+	+	+	+	+	+	+
Rimantadine	+	+	+	+	+	+	+	+	+	+	+	+
Simeprevir	+	+	+	+	+	+	+	+	+	+	+	+
Sofosbuvir	+	+	+	+	+	+	+	+	+	+	+	+
Sofosbuvir/Velpatasvir	+	+	+	+	+	+	+	+	+	+	+	+
Sofosbuvir/Velpatasvir/Voxilaprevir	+	+	+	+	+	+	+	+	+	+	+	+
Telaprevir	+	+	+	+	+	+	+	+	+	+	+	+
Telvivudine	+	+	+	+	+	+	+	+	+	+	+	+
Valaciclovir	+	+	+	+	+	+	+	+	+	+	+	+
Zanamivir	+	+	+	+	+	+	+	+	+	+	+	+
Anxiolytics/Hypnotics/Sedatives												
Alprazolam	+	+	+	+	+	+	+	+	+	+	+	+
Bromazepam	+	+	+	+	+	+	+	+	+	+	+	+
Buspirone	+	+	+	+	+	+	+	+	+	+	+	+
Chlordiazepoxide	+	+	+	+	+	+	+	+	+	+	+	+
Clobazam	+	+	+	+	+	+	+	+	+	+	+	+
Clorazepate	+	+	+	+	+	+	+	+	+	+	+	+
Diazepam	+	+	+	+	+	+	+	+	+	+	+	+
Estazolam	+	+	+	+	+	+	+	+	+	+	+	+
Flunitrazepam	+	+	+	+	+	+	+	+	+	+	+	+
Flurazepam	+	+	+	+	+	+	+	+	+	+	+	+
Hydroxyzine	+	+	+	+	+	+	+	+	+	+	+	+
Lorazepam	+	+	+	+	+	+	+	+	+	+	+	+
Lormetazepam	+	+	+	+	+	+	+	+	+	+	+	+
Midazolam (oral)	+	+	+	+	+	+	+	+	+	+	+	+
Midazolam (parenteral)	+	+	+	+	+	+	+	+	+	+	+	+
Oxazepam	+	+	+	+	+	+	+	+	+	+	+	+
Temazepam	+	+	+	+	+	+	+	+	+	+	+	+
Triazolam	+	+	+	+	+	+	+	+	+	+	+	+
Zaleplon	+	+	+	+	+	+	+	+	+	+	+	+
Zolpidem	+	+	+	+	+	+	+	+	+	+	+	+
Zopiclone	+	+	+	+	+	+	+	+	+	+	+	+
Beta Blockers												
Atenolol	+	+	+	+	+	+	+	+	+	+	+	+
Bisoprolol	+	+	+	+	+	+	+	+	+	+	+	+
Carvedilol	+	+	+	+	+	+	+	+	+	+	+	+
Metoprolol	+	+	+	+	+	+	+	+	+	+	+	+
Nebivololol	+	+	+	+	+	+	+	+	+	+	+	+
Oxprenolol	+	+	+	+	+	+	+	+	+	+	+	+
Pindolol	+	+	+	+	+	+	+	+	+	+	+	+
Propranolol	+	+	+	+	+	+	+	+	+	+	+	+
Timolol	+	+	+	+	+	+	+	+	+	+	+	+
Bronchodilators												
Acclidinium bromide	+	+	+	+	+	+	+	+	+	+	+	+
Aminophylline	+	+	+	+	+	+	+	+	+	+	+	+
Formoterol	+	+	+	+	+	+	+	+	+	+	+	+
Glycopyrronium bromide	+	+	+	+	+	+	+	+	+	+	+	+
Indacaterol	+	+	+	+	+	+	+	+	+	+	+	+
Ipratropium bromide	+	+	+	+	+	+	+	+	+	+	+	+
Montelukast	+	+	+	+	+	+	+	+	+	+	+	+
Olodaterol	+	+	+	+	+	+	+	+	+	+	+	+
Roflumilast	+	+	+	+	+	+	+	+	+	+	+	+
Salbutamol	+	+	+	+	+	+	+	+	+	+	+	+
Salmeterol	+	+	+	+	+	+	+	+	+	+	+	+
Theophylline	+	+	+	+	+	+	+	+	+	+	+	+
Tiotropium bromide	+	+	+	+	+	+	+	+	+	+	+	+
Umeclidinium bromide	+	+	+	+	+	+	+	+	+	+	+	+
Vilanterol	+	+	+	+	+	+	+	+	+	+	+	+

	ATV	ATV/c	ATV/r	DRV/c	SYM	DRV/r	FPV	IDV	LPV	RTV	SQV	TPV
Calcium Channel Blockers												
Amlodipine	+	+	+	+	+	+	+	+	+	+	+	+
Diltiazem	+	+	+	+	+	+	+	+	+	+	+	+
Felodipine	+	+	+	+	+	+	+	+	+	+	+	+
Nicardipine	+	+	+	+	+	+	+	+	+	+	+	+
Nifedipine	+	+	+	+	+	+	+	+	+	+	+	+
Nisoldipine	+	+	+	+	+	+	+	+	+	+	+	+
Nitrendipine	+	+	+	+	+	+	+	+	+	+	+	+
Verapamil	+	+	+	+	+	+	+	+	+	+	+	+
Cancer Therapies												
Anastrozole	+	+	+	+	+	+	+	+	+	+	+	+
Asparaginase	+	+	+	+	+	+	+	+	+	+	+	+
Bevacizumab	+	+	+	+	+	+	+	+	+	+	+	+
Bexarotene	+	+	+	+	+	+	+	+	+	+	+	+
Bleomycin	+	+	+	+	+	+	+	+	+	+	+	+
Bortezomib	+	+	+	+	+	+	+	+	+	+	+	+
Caprecitabine	+	+	+	+	+	+	+	+	+	+	+	+
Carboplatin	+	+	+	+	+	+	+	+	+	+	+	+
Cetuximab	+	+	+	+	+	+	+	+	+	+	+	+
Chlorambucil	+	+	+	+	+	+	+	+	+	+	+	+
Cisplatin	+	+	+	+	+	+	+	+	+	+	+	+
Cyclophosphamide	+	+	+	+	+	+	+	+	+	+	+	+
Cytarabine	+	+	+	+	+	+	+	+	+	+	+	+
Dacarbazine	+	+	+	+	+	+	+	+	+	+	+	+
Dactinomycin	+	+	+	+	+	+	+	+	+	+	+	+
Dasatinib	+	+	+	+	+	+	+	+	+	+	+	+
Daunorubicin	+	+	+	+	+	+	+	+	+	+	+	+
Docetaxel	+	+	+	+	+	+	+	+	+	+	+	+
Doxorubicin	+	+	+	+	+	+	+	+	+	+	+	+
Droloxifene	+	+	+	+	+	+	+	+	+	+	+	+
Epirubicin	+	+	+	+	+	+	+	+	+	+	+	+
Erlotinib	+	+	+	+	+	+	+	+	+	+	+	+
Estramustine	+	+	+	+	+	+	+	+	+	+	+	+
Etoposide	+	+	+	+	+	+	+	+	+	+	+	+
Everolimus	+	+	+	+	+	+	+	+	+	+	+	+
Exemestane	+	+	+	+	+	+	+	+	+	+	+	+
Fludarabine	+	+	+	+	+	+	+	+	+	+	+	+
Fluorouracil	+	+	+	+	+	+	+	+	+	+	+	+
Formestane	+	+	+	+	+	+	+	+	+	+	+	+
Gefitinib	+	+	+	+	+	+	+	+	+	+	+	+
Gemcitabine	+	+	+	+	+	+	+	+	+	+	+	+
Ifosfamide	+	+	+	+	+	+	+	+	+	+	+	+
Imatinib	+	+	+	+	+	+	+	+	+	+	+	+
Irinotecan	+	+	+	+	+	+	+	+	+	+	+	+
Lapatinib	+	+	+	+	+	+	+	+	+	+	+	+
Letrozole	+	+	+	+	+	+	+	+	+	+	+	+
Mercaptopurine	+	+	+	+	+	+	+	+	+	+	+	+
Mesna	+	+	+	+	+	+	+	+	+	+	+	+
Methotrexate	+	+	+	+	+	+	+	+	+	+	+	+
Mitoxantrone	+	+	+	+	+	+	+	+	+	+	+	+
Nilotinib	+	+	+	+	+	+	+	+	+	+	+	+
Oxaliplatin	+	+	+	+	+	+	+	+	+	+	+	+
Paclitaxel	+	+	+	+	+	+	+	+	+	+	+	+
Pazopanib	+	+	+	+	+	+	+	+	+	+	+	+
Procarbazine	+	+	+	+	+	+	+	+	+	+	+	+
Rituximab	+	+	+	+	+	+	+	+	+	+	+	+
Sorafenib	+	+	+	+	+	+	+	+	+	+	+	+
Sunitinib	+	+	+	+	+	+	+	+	+	+	+	+
Tamoxifen	+	+	+	+	+	+	+	+	+	+	+	+
Temsirolimus	+	+	+	+	+	+	+	+	+	+	+	+
Topotecan	+	+	+	+	+	+	+	+	+	+	+	+
Toremifene	+	+	+	+	+	+	+	+	+	+	+	+
Vinblastine	+	+	+	+	+	+	+	+	+	+	+	+
Vincristine	+	+	+	+	+	+	+	+	+	+	+	+
Vorinostat	+	+	+	+	+	+	+	+	+	+	+	+

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Key to abbreviations

ATV	Atazanavir alone (Reyataz [®])	DRV/r	Darunavir + Ritonavir (Prezista [®] +Norvir [®])
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SYM	Darunavir/cobicistat/FTC/TAF (Symtuza [®])	SQV	Saquinavir (Invirase [®])
		TPV	Tipranavir (Aptivus [®])

Key to symbols

•	These drugs should not be coadministered
■	Potential interaction – may require close monitoring, alteration of drug dosage or timing of administration
▲	Potential interaction likely to be of weak intensity. Additional action/monitoring or dosage adjustment is unlikely to be required
◆	No clinically significant interaction expected
+	There are no clear data, actual or theoretical, to indicate whether an interaction will occur

Where advice differs between countries, and/or between boosted and unboosted regimens, the charts reflect the more cautious option.

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Pharmacology Research Labs, 1st Floor Block H, 70 Pembroke Place, LIVERPOOL, L69 3GF

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	ATV	ATV/c	ATV/r	DRV/c	SYM	DRV/r	FPV	IDV	LPV	RTV	SQV	TPV
Contraceptives/HRT												
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	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Erectile Dysfunctional Agents												
Sildenafil (Erectile Dysfunction)	■	■	■	■	■	■	■	■	■	■	■	■
Tadalafil (Erectile Dysfunction)	■	■	■	■	■	■	■	■	■	■	■	■
Vardenafil	■	■	■	■	■	■	■	■	■	■	■	■
Gastrointestinal Agents												
Alosetron	■	■	■	■	■	■	■	■	■	■	■	■
Antacids	■	■	■	■	■	■	■	■	■	■	■	■
Bisacodyl	■	■	■	■	■	■	■	■	■	■	■	■
Cimetidine	■	■	■	■	■	■	■	■	■	■	■	■
Cisapride	■	■	■	■	■	■	■	■	■	■	■	■
Esomeprazole	■	■	■	■	■	■	■	■	■	■	■	■
Famotidine	■	■	■	■	■	■	■	■	■	■	■	■
Lactulose	■	■	■	■	■	■	■	■	■	■	■	■
Lansoprazole	■	■	■	■	■	■	■	■	■	■	■	■
Loperamide	■	■	■	■	■	■	■	■	■	■	■	■
Mesalazine	■	■	■	■	■	■	■	■	■	■	■	■
Omeprazole	■	■	■	■	■	■	■	■	■	■	■	■
Pantoprazole	■	■	■	■	■	■	■	■	■	■	■	■
Prucalopride	■	■	■	■	■	■	■	■	■	■	■	■
Rabepazole	■	■	■	■	■	■	■	■	■	■	■	■
Ranitidine	■	■	■	■	■	■	■	■	■	■	■	■
Senna	■	■	■	■	■	■	■	■	■	■	■	■
Gastrointestinal Agents (anti-emetics)												
Aprepitant	■	■	■	■	■	■	■	■	■	■	■	■
Dolasetron	■	■	■	■	■	■	■	■	■	■	■	■
Domperidone	■	■	■	■	■	■	■	■	■	■	■	■
Dronabinol	■	■	■	■	■	■	■	■	■	■	■	■
Granisetron	■	■	■	■	■	■	■	■	■	■	■	■
Metoclopramide	■	■	■	■	■	■	■	■	■	■	■	■
Ondansetron	■	■	■	■	■	■	■	■	■	■	■	■
Prochlorperazine	■	■	■	■	■	■	■	■	■	■	■	■
Herbals/Supplements/Vitamins												
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	■	■	■	■	■	■	■	■	■	■	■	■

	ATV	ATV/c	ATV/r	DRV/c	SYM	DRV/r	FPV	IDV	LPV	RTV	SQV	TPV
Herbals/Supplements/Vitamins (continued)												
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	■	■	■	■	■	■	■	■	■	■	■	■
Hypertension / Heart Failure Agents												
Aiskiren	■	■	■	■	■	■	■	■	■	■	■	■
Ambrisentan	■	■	■	■	■	■	■	■	■	■	■	■
Amloride	■	■	■	■	■	■	■	■	■	■	■	■
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	■	■	■	■	■	■	■	■	■	■	■	■
Olmесartan	■	■	■	■	■	■	■	■	■	■	■	■
Perindopril	■	■	■	■	■	■	■	■	■	■	■	■
Prazosin	■	■	■	■	■	■	■	■	■	■	■	■
Quinapril	■	■	■	■	■	■	■	■	■	■	■	■
Ramipril	■	■	■	■	■	■	■	■	■	■	■	■
Ranolazine	■	■	■	■</								

Interactions with Protease Inhibitors

Charts revised February 2019. Full information available at 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
Illicit/Recreational												
Alcohol	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Amphetamine	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Cannabis	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Cocaine	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Ecstasy (MDMA)	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
GHB (Gamma-hydroxybutyrate)	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Heroin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
LSD (Lysergic acid diethylamide)	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Mephedrone	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Methamphetamine	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Phencyclidine (PCP)	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Poppers (Amyl nitrate)	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Immune Modulators												
Hydroxyurea (Hydroxycarbamide)	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Interferon alpha	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Interleukin 2 (Aldesleukin)	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Peginterferon alfa-2a	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Immunosuppressants												
Adalimumab	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Anti-thymocyte globulin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Azathioprine	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Basiliximab	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Belatacept	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Ciclosporin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Mycophenolate	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Sirolimus	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Tacrolimus	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Lipid Lowering Agents												
Atorvastatin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Bezafibrate	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Clofibrate	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Evolocumab	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Ezetimibe	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Fenofibrate	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Fish oils	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Fluvastatin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Gemfibrozil	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Lovastatin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Pitavastatin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Pravastatin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Rosuvastatin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Simvastatin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Overactive Bladder Agents												
Darifenacin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Fesoterodine	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Mirabegron	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Oxybutynin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Solifenacin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Tolterodine	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Trospium	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Oxytocics												
Ergometrine (Ergonovine)	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Mifepristone	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Misoprostol	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Oxytocin	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Parkinsonism Agents												
Apomorphine	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Benserazide	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Carbidopa	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Levodopa	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Pramipexole	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Rasagiline	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Ropinrole	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Steroids												
Beclometasone	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
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
Other												
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	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Naftidrofuryl	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Naloxone	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Naltrexone	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Neostigmine	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Nicorandil	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
Oristat	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
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®)	DRV/r	Darunavir + Ritonavir (Prezista®+Norvir®)
ATV/c	Atazanavir/cobicistat (Evotaz®)	FPV	Fosamprenavir (Telzir®, Lexiva®)
ATV/r	Atazanavir + Ritonavir (Reyataz®+Norvir®)	LPV	Lopinavir (Kaletra®)
DRV/c	Darunavir/cobicistat (Rezolista®, Prezcoibix		