CYP3A4 Substrates

Drugs metabolized by CYP3A4 are called CYP3A4 substrates. Keep in mind that many drugs are metabolized by more than one CYP450 enzyme, and CYP3A4 may represent only one pathway. Unfortunately, many CYP3A4 substrates have substantial toxicity, and some patients may develop severe toxicity when CYP3A4 inhibitors are taken concurrently. A selected list of such interactions appears in the Table.

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| |  |  |  | | --- | --- | --- | | |  |  | | --- | --- | | Alfentanil (Alfenta) Alfuzosin (Uroxatral) Almotriptan (Axert) Alprazolam (Xanax) Amiodarone (Cordarone) Amlodipine (Norvasc) Aprepitant (Emend) Atazanavir (Reyataz) Atorvastatin (Lipitor) Bepridil (Vascor) Bexarotene (Targretin) Bosentan (Tracleer) Bromocriptine (Parlodel) Budesonide (Entocort) Buprenorphine (Subutex) Bupropion (Buspar) Carbamazepine (eg, Tegretol) Cevimeline (Evoxac) Cilostazol (Pletal) Cisapride (Propulsid) Clarithromycin (Biaxin) Clonazepam (Klonopin) Clopidogrel (Plavix) Colchicine Cyclophosphamide (Cytoxan) Cyclosporine (Neoral) Dapsone (Avlosulfon) Darunavir (Prezista) Dasatinib (Sprycel) Delavirdine (Rescriptor) Dexamethasone (Decadron) Dihydroergotamine Diltiazem (Cardizem) Disopyramide (Norpace) Docetaxel (Taxotere) Donepezil (Aricept) Doxorubicin (Adriamycin) Droperidol Dutasteride (Avodart) Ebastine (Kestine) Efavirenz (Sustiva) Eletriptan (Relpax) Eplerenone (Inspra) Ergotamine (Ergomar) Erlotinib (Tarceva) Erythromycin Estazolam (ProSom) Eszopiclone (Lunesta) Ethinyl Estradiol Ethosuximide (Zarontin) Etoposide (Vepesid) Exemestane (Aromasin) Felodipine (Plendil) Fentanyl (Sublimaze) Finasteride (Proscar) Flurazepam (Dalmane) Fosamprenavir (Lexiva) Galantamine (Reminyl) Gefitinib (Iressa) Granisetron (Kytril) Halofantrine (Halfan) Ifosfamide (Ifex) Imatinib (Gleevec) Indinavir (Crixivan) Irinotecan (Camptosar) Isradipine (DynaCirc) Itraconazole (Sporanox) | Ixabepilone (Ixempra) Ketoconazole (Nizoral) Lapatinib (Tykerb) Levomethadyl (Orlaam) Loperamide (Imodium) Lopinavir (Kaletra) Loratadine (Claritin) Lovastatin (Mevacor) Maraviroc (Selzentry) Mefloquine (Lariam) Methylprednisolone Midazolam (Versed) Mifepristone (Mifeprex) Modafinil (Provigil) Nefazodone Nevirapine (Viramune) Nicardipine (Cardene) Nifedipine (Adalat) Nimodipine (Nimotop) Nisoldipine (Sular) Nitrendipine (Baypress) Oxybutynin (Ditropan) Oxycodone (Percodan) Paclitaxel (Taxol) Paricalcitol (Zemplar) Pimozide (Orap) Pioglitazone Praziquantel (Biltricide) Prednisolone Prednisone Propoxyphene (Darvon) Quazepam (Doral) Quetiapine (Seroquel) Quinacrine Quinidine Quinine Ranolazine (Ranexa) Repaglinide (Prandin) Rifabutin (Rimactane) Ritonavir (Norvir) Saquinavir (Invirase) Sibutramine (Meridia) Sildenafil (Viagra) Simvastatin (Zocor) Sirolimus (Rapamune) Solifenacin (Vesicare) Sufentanil (Sufenta) Sunitinib (Sutent) Tacrolimus (Prograf) Tadalafil (Cialis) Tamoxifen (Nolvadex) Tamsulosin (Flomax) Teniposide (Vumon) Testosterone Tiagabine (Gabitril) Tinidazole (Tindamax) Tipranavir (Aptivus) Topiramate (Topamax) Triazolam (Halcion) Vardenafil (Levitra) Verapamil (Calan) Vinblastine (Velbane) Vincristine (Oncovin) Ziprasidone (Geodon) Zolpidem (Ambien) Zonisamide (Zonegran) Zopiclone (Imovane) | | |

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