

High daily dose and being a substrate of Cytochrome P450 enzymes are two important predictors of drug-induced liver injury

Ke Yu, Xingchao Geng, Minjun Chen, Jie Zhang, Bingshun Wang, Katarina Ilic and
Weida Tong

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SUPPLEMENTARY TABLE 1

Drugs-substrates, inhibitors, and inducers of CYP enzymes with the daily dose and lipophilicity

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128 Most-DILI-concern drugs	CYP substrates*	CYP inducers	CYP inhibitors	Log <i>P</i>	Daily dose (mg)
Abacavir	DNF	DNF	DNF	0.8	600
Acarbose	DNF	2E1	DNF	-6.8	300
Acitretin	DNF	26A1	DNF	5.7	35
Alaproclate	DNF	DNF	DNF	2.8	200
Alclofenac	Unspecified CYP isoforms	DNF	DNF	2.8	3000
Alpidem	3A4	DNF	DNF	5.5	150
Ambrisentan	3A4, 3A5, 2C19	DNF	DNF	3.7	5
Amineptine	Unspecified CYP isoforms	DNF	DNF	1.1	150
Aminosalicylic Acid	DNF	DNF	11B2	0.5	12000
Amiodarone	1A1, 1A2, 2C8, 2C19, 2D6, 3A4	DNF	1A2, 2C9, 2D6, 3A4, 3A5, 3A7	7.2	200
Aplaviroc	3A4,2C19	DNF	DNF	3.1	200
Bendazac	DNF	DNF	DNF	3.3	300
Benoxaprofen	Unspecified CYP isoforms	1A1, 1A2	DNF	4.1	300
Benzarone	DNF	DNF	DNF	4.1	400
Benzbromarone	2C9	DNF	2C9	5.6	100
Benziodarone	DNF	DNF	2D6	5.3	600
Bicalutamide	3A4	DNF	2C9, 2C19, 2D6, 3A4	2.9	50
Bosentan	2C9, 3A4	2C9, 3A4	DNF	3.9	125
Bromfenac	Unspecified CYP isoforms	DNF	DNF	2.9	150
Busulfan	3A4	DNF	DNF	-0.3	240
Carbamazepine	1A2, 2C8, 3A4, 3A7	2B6, 2C9, 2C19, 3A4	1A2, 2C19	2.7	1000
Carbidopa	DNF	DNF	DNF	0.4	100
Chlormezanone	DNF	DNF	DNF	1.6	600
Chlorzoxazone	1A1, 1A2, 2A6, 2D6, 2E1, 3A4	DNF	2E1	2.0	1500
Cinchophen	Unspecified CYP isoforms	DNF	DNF	3.6	300
Ciprofloxacin	DNF	2E1	1A2, 3A4,3A5, 3A7	-1.3	1000
Clomacran	DNF	DNF	DNF	4.8	600
Clometacin	DNF	DNF	DNF	4.0	450
Cyclofenil	DNF	DNF	DNF	5.2	200
Danazol	3A4	DNF	3A4, 19A	4.9	600
Dantrolene	3A4	DNF	DNF	1.8	100
Deferasirox	1A1, 1A2, 2D6	DNF	1A2, 2C8	2.7	1500
Dermatan	DNF	DNF	DNF	-4.3	600

128 Most-DILI-concern drugs	CYP substrates	CYP inducers	CYP inhibitors	Log <i>P</i>	Daily dose (mg)
Diclofenac	1A1, 1A2, 2B6, 2C8, 2C9, 2C18, 2C19, 3A4, 46A	DNF	2C9, 2E1, 3A4	4.4	100
Didanosine	DNF	DNF	DNF	-0.8	400
Disulfiram	3A4, 3A5	DNF	2C9, 2E1	5.6	200
Droxicam	DNF	DNF	DNF	1.1	20
Ebrotidine	Unspecified CYP isoforms	DNF	3A4, 3A5	1.2	400
Eltrombopag	1A2, 2C8	DNF	DNF	-1.9	50
Erythromycin	3A4, 3A7	DNF	1A2, 3A4, 3A5, 3A7	1.8	1000
Ethambutol	DNF	DNF	DNF	0.1	1200
Etodolac	2C9	DNF	2C9	3.7	400
Exifone	Unspecified CYP isoforms	DNF	DNF	1.8	1200
Felbamate	2E1, 3A4	3A4	2C19	1.0	2400
Fenclozic Acid	Unspecified CYP isoforms	DNF	DNF	3.0	300
Fenofibrate	3A4	DNF	2C8, 2C9, 7A1	5.2	200
Fenoprofen	DNF	DNF	DNF	3.5	12000
Fiduxosin	DNF	DNF	DNF	4.2	120
Fipexide	Unspecified CYP isoforms	DNF	DNF	3.1	600
Fluconazole	2C9	3A4, 3A5	2C9, 2C18, 2C19, 2D6, 3A4, 3A5, 3A7, 11B1, 19A, 51	0.8	200
Flutamide	1A1, 1A2, 1B1, 2C19, 3A4, 3A5	DNF	1A2, 1B1	2.9	750
Glafenine	Unspecified CYP isoforms	DNF	DNF	3.0	600
Hydroxyurea	DNF	2D6	2D6	-1.0	150
Ibufenac	Unspecified CYP isoforms	DNF	DNF	3.1	2400
Indinavir	2D6, 3A4, 3A5, 3A7	DNF	2C8, 2C9, 2C19, 2D6, 3A4, 3A5, 3A7	3.1	2400
Indomethacin	2C8, 2C9, 2C19	DNF	2C8, 2C9, 2C19	4.3	100
Iproniazid	Unspecified CYP isoforms	DNF	DNF	0.1	200
Isaxonine	Unspecified CYP isoforms	DNF	DNF	0.6	1500
Isocarboxazid	Unspecified CYP isoforms	DNF	DNF	1.2	30
Isoniazid	2E1	2E1	1A2, 2A6, 2C8, 2C19, 2D6, 2E1, 3A4	-0.8	300

128 Most-DILI-concern drugs	CYP substrates	CYP inducers	CYP inhibitors	Log <i>P</i>	Daily dose (mg)
Ketoconazole	3A4, 3A5	1A1, 3A4, 3A5	1A1, 1A2, 2A6, 2B6, 2C8, 2C9, 2C19, 2D6, 2E1, 2F1, 3A4, 3A5, 3A7, 4F2, 11A1, 11B1, 17A, 26A1, 51A	3.6	200
Labetalol	2D6	DNF	2D6	2.4	600
Lamivudine	DNF	DNF	DNF	-0.6	300
Lapatinib	3A4	DNF	3A4	5.4	1250
Leflunomide	2C8, 2C9	DNF	2C8, 2C9	2.2	20
Lumiracoxib	1A2, 2C9, 2C19	DNF	DNF	4.4	100
Maraviroc	3A4, 3A5	DNF	DNF	3.9	600
Mebanazine	Unspecified CYP isoforms	DNF	DNF	1.0	30
Mepazine	DNF	DNF	DNF	4.6	300
Mercaptopurine	DNF	DNF	DNF	0.4	112.5
Methimazole	DNF	DNF	1A2, 2A6, 2B6, 2C9, 2C19, 2D6, 2E1, 3A4	0.4	10
Methotrexate	DNF	DNF	DNF	0.1	30
Methyldopa	1A2, 2D6	DNF	DNF	-1.8	1000
Moxisylyte	DNF	DNF	DNF	3.2	240
Naltrexone	3A4	DNF	DNF	1.7	50
Nefazodone	3A4	DNF	2D6, 3A4, 3A5, 3A7	4.4	400
Nevirapine	2B6, 2C9, 2D6, 3A4	2B6, 3A4	1A2, 2C9, 2D6, 3A4	1.7	400
Niacin	DNF	DNF	2D6	0.3	2000
Nialamide	Unspecified CYP isoforms	DNF	DNF	0.3	200
Nimesulide	1A2, 2C9, 2C19	DNF	2C9	2.2	200
Niperotidine	Unspecified CYP isoforms	DNF	DNF	2.4	230
Nitrefazole	DNF	DNF	DNF	2.1	1200
Nitrofurantoin	NADPH--cytochrome P450 reductase	DNF	DNF	0.1	200
Nomifensine	Unspecified CYP isoforms	DNF	DNF	2.6	100
Nortriptyline	1A2, 2C19, 2D6, 3A4	DNF	2D6, 2E1	4.2	75
Orlistat	DNF	3A4	DNF	8.3	360
Oxandrolone	DNF	DNF	DNF	3.1	20
Oxymetholone	Unspecified CYP isoforms	DNF	DNF	3.1	150
Oxyphenisatin	DNF	DNF	DNF	3.2	50

128 Most-DILI-concern drugs	CYP substrates	CYP inducers	CYP inhibitors	Log <i>P</i>	Daily dose (mg)
Pafuramidine	1A, 3A4	DNF	DNF	3.2	200
Pazopanib	3A4	DNF	3A4, 2C8, 2D6	2.5	800
Pemoline	Unspecified CYP isoforms	DNF	DNF	1.3	37.5
Perhexiline	2B6, 2D6, 3A4	DNF	2D6	5.7	200
Phenoxypropazine	Unspecified CYP isoforms	DNF	DNF	1.1	10
Pipamazine	DNF	DNF	DNF	-1.5	15
Pirprofen	Unspecified CYP isoforms	DNF	DNF	3.1	800
Propylthiouracil	DNF	1A1	DNF	1.6	150
Rifampin	1A2, 2A6, 2B6, 2C8, 2C9, 2C19, 2D6, 2E1, 3A4, 3A5	1A1, 1A2, 1B1, 2A6, 2A13, 2B6, 2C8, 2C9, 2C18, 2C19, 2D6, 2E1, 2F1, 3A4, 3A5, 3A7, 3A43, 4A11	2A6, 2C8, 3A4, 3A5, 7A1	1.4	600
Ritonavir	1A2, 2B6, 2D6, 3A4, 3A5, 3A7	2B6, 2C8, 2C9, 2C19, 3A4, 3A5	1A2, 2B6, 2C8, 2C9, 2C19, 2D6, 2E1, 3A4, 3A5, 3A7, 7A1	5.0	1200
Stavudine	DNF	DNF	DNF	-0.5	80
Sulfamethoxazole	2C9, 3A4	DNF	2C8, 2C9	0.7	2000
Sulfathiazole	DNF	DNF	DNF	0.1	5000
Sulindac	DNF	DNF	1A1, 1A2	3.6	400
Suloctidil	DNF	DNF	DNF	5.7	600
Sunitinib	3A4, 3A5	DNF	DNF	3.0	50
Tacrine	1A2	DNF	DNF	2.8	120
Tamoxifen	1A1, 1A2, 2A6, 2B6, 2C9, 2C19, 2D6, 2E1, 3A4, 3A5, 3A7	3A4	1B1, 2B6, 2C8, 2C9, 2D6, 3A4, 19A	6.3	20
Tasosartan	3A4	DNF	DNF	3.1	600
Tenofovir	DNF	DNF	1A2, 2C9, 2E1	-0.8	300
Terbinafine	1A2, 2C9, 2C8, 2C19, 3A4	3A4	2D6, 11A, 19A	5.3	250
Tetrabamate	Unspecified CYP isoforms	DNF	DNF	2.1	300
Tetracycline	3A4	DNF	3A4	-2.0	1000
Ticlopidine	3A4	DNF	1A1, 1A2, 2B6, 2C9, 2C19, 2D6, 2E1	3.9	500
Ticrynafen	2C9	2C9	DNF	4.0	125
Tilbroquinol	Unspecified CYP isoforms	DNF	DNF	3.0	200

128 Most-DILI-concern drugs	CYP substrates	CYP inducers	CYP inhibitors	LogP	Daily dose (mg)
Tipranavir	3A4	3A4	DNF	7.4	1000
Tolcapone	1A2, 2A6, 2E1, 3A4	DNF	2C9	3.1	450
Tolrestat	DNF	DNF	DNF	4.0	400
Troglitazone	1A1, 2C8, 2C9, 2C19, 3A4	2B6, 3A4, 3A5, 3A7	2C8, 2C9, 2C19, 3A4, 3A5, 3A7, 19A	5.7	400
Trovafloxacin	1A2	DNF	DNF	-0.9	200
Valproic Acid	2A6, 2B6, 2C9, 2C19, 3A5	4A11	1A2, 2C8, 2C9, 2C18, 2C19, 3A4	2.7	1500
Verapamil	1A2, 2B6, 2C8, 2C9, 2C18, 2C19, 3A4, 3A5, 3A7	2B6	2C9, 2D6, 3A4, 3A5, 3A7	5.5	240
Ximelagatran	2C9	DNF	DNF	1.2	48
Zafirlukast	2C8, 2C9	DNF	1A2, 2C8, 2C9, 2C19, 2D6, 2E1, 3A4	6.3	40
Zalcitabine	2C9, 2D6, 3A4, 3A5, 3A7, 3A43	DNF	DNF	-1.0	2.25
Zidovudine	2A6, 2C8, 2C9, 2C19, 3A4	DNF	DNF	0.1	600
Zileuton	1A2, 2C9, 3A4	DNF	1A2	2.2	1200
Zimeldine	Unspecified CYP isoforms	DNF	DNF	3.4	200
78 Less-DILI-Concern Drugs	CYP substrates	CYP inducers	CYP inhibitors	LogP	Daily dose (mg)
17beta-Estradiol	1A1, 1A2, 1B1, 2C8, 2C9, 2C19, 3A4, 3A5, 3A7	DNF	DNF	4.0	2
Acyclovir	DNF	DNF	DNF	-1.6	4000
Allopurinol	DNF	DNF	2E1	-0.5	400
Altretamine	2B	DNF	DNF	2.7	490
Amantadine	DNF	DNF	DNF	2.4	200
Amoxicillin	2C19	DNF	DNF	-2.0	1000
Azathioprine	DNF	DNF	DNF	0.1	150
Bisoprolol	2D6, 3A4	DNF	DNF	1.9	10
Bupropion	1A2, 2A6, 2B6, 2C8, 2C9, 2D6, 2E1, 3A4	DNF	2B6, 2D6	3.2	300
Buspirone	2D6, 3A4, 3A5, 3A7	DNF	DNF	2.6	30
Captopril	2D6	DNF	DNF	0.3	50
Chloroquine	1A1, 2C8, 2D6, 3A4, 3A5	DNF	2D6	4.6	500

78 Less-DILI- Concern Drugs	CYP substrates	CYP inducers	CYP inhibitors	Log <i>P</i>	Daily dose (mg)
Chlorpromazine	1A2, 2D6, 3A4	1A1, 1A2, 2B6, 3A4, 3A5	1A2, 2D6, 2E1	5.2	300
Chlorpropamide	2C9, 2C19	DNF	DNF	2.3	375
Cimetidine	DNF	DNF	1A2, 2C8, 2C9, 2C19, 2D6, 2E1, 3A4, 3A5, 3A7, 11B1	0.4	800
Clofibrate	3A4, 4A11	1A1, 2B6, 2E1, 3A4, 4A11, 4B1	2A6	3.3	2000
Clonidine	1A1, 1A2, 2D6, 3A4, 3A5	19A	DNF	1.6	0.1
Clotrimazole	DNF	2A6, 2B6, 3A4, 3A7	1A2, 2A6, 2B6, 2C8, 2C9, 2C19, 2E1, 3A4, 11B1, 19A	5.0	100
Clozapine	1A2, 2C8, 2C9, 2C19, 2D6, 3A4	1A1, 1B1, 3A4	1A2, 2C9, 2C19, 2D6, 3A4, 2E1, 3A4	3.2	300
Colchicine	3A4	2C8, 2C9, 2E1, 3A4	1A1, 2B6, 2C8, 2C9, 3A4	1.0	1
Cromoglicic Acid	DNF	DNF	DNF	1.9	800
Cyclophosphamide	2A6, 2B6, 2C8, 2C9, 2C18, 2C19, 2D6, 3A4, 3A7	2B6, 2C8, 2C9, 3A4	3A4	0.6	75
Cyclosporine	3A4, 3A5, 3A7	3A5, 3A7	2C8, 2C9, 2C19, 2D6, 3A4, 27A	7.5	250
Desipramine	1A2, 2C18, 2C19, 2D6	DNF	2A6, 2B6, 2D6, 2C19, 2E1, 3A4	4.9	100
Dexamethasone	1A2, 3A4, 3A5, 3A7	1A1, 1A2, 2B6, 2C8, 2C9, 2C19, 2D6, 3A4, 3A5, 3A7, 3A43, 4A11, 27A1	3A4, 11A, 11B1, 17A	1.9	1.5
Doxycycline	3A4	DNF	1B1, 3A4	-0.7	100
Enalapril	3A4	DNF	DNF	-0.1	10
Ethacrynic Acid	1A1	DNF	DNF	3.8	50
Famotidine	2C19	DNF	DNF	-0.6	40
Fluoxetine	1A2, 2B6, 2C8, 2C9, 2C19, 2D6, 2E1, 3A4, 3A5	DNF	1A2, 2B6, 2C8, 2C9, 2C19, 2D6, 3A4	4.0	20
Flurbiprofen	2C8, 2C9	DNF	2C8, 2C9	4.2	200
Furosemide	2E1	DNF	DNF	2.0	40
Ganciclovir	DNF	DNF	DNF	-1.7	3000
Gemfibrozil	3A4	2C8, 3A4	1A2, 2C8, 2C9, 2C19, 3A4, 7A1	3.8	1200
Glimepiride	2C8, 2C9		DNF	3.9	2

78 Less-DILI- Concern Drugs	CYP substrates	CYP inducers	CYP inhibitors	Log <i>P</i>	Daily dose (mg)
Griseofulvin	1A2	1A2, 2C8, 2C9, 3A4	DNF	2.2	500
Haloperidol	1A1, 1A2, 2C9, 2C19, 2D6, 3A4, 3A5, 3A7	2D6	2D6, 3A4	3.2	8
Ibuprofen	2C8, 2C9, 2C19	DNF	2C8, 2C9	3.5	1200
Imipramine	1A2, 2B6, 2C18, 2C19, 2D6, 3A4, 3A7	DNF	1A2, 2C19, 2D6, 2E1	4.8	100
Isosorbide	3A4	DNF	2E1	1.3	60
Isotretinoin	3A4	DNF	DNF	6.3	30
Ketorolac	DNF	DNF	DNF	1.9	30
Lovastatin	3A4, 3A5, 3A7	2C9, 4F22	2C8, 2C9, 2D6, 3A4	4.3	45
Maprotiline	1A2, 2D6	DNF	DNF	4.6	100
Mebendazole	3A4	1A1	DNF	2.8	200
Metoprolol	2C19, 2D6	DNF	2D6	1.9	150
Mexiletine	1A2, 2B6, 2D6, 2E1, 3A4	DNF	1A2	2.1	800
Minocycline	DNF	DNF	DNF	-0.6	200
Montelukast	3A4, 2C9	DNF	2C8	7.7	10
Naproxen	1A2, 2C8, 2C9	DNF	DNF	3.3	500
Nifedipine	2D6, 3A4, 3A5, 3A7	2B6, 2C9, 3A4	1A1, 1A2, 2C8, 2C9, 2D6, 2E1, 3A4	2.2	30
Nizatidine	DNF	DNF	DNF	1.6	300
Oseltamivir	DNF	DNF	DNF	1.1	150
Oxytetracycline	DNF	DNF	DNF	-1.6	1000
Paroxetine	2D6	DNF	1A2, 2B6, 2C8, 2C9, 2C19, 2D6, 3A4	3.5	20
Penicillamine	DNF	DNF	DNF	-1.8	500
Phenobarbital	2C8, 2C9, 2C19, 2E1	1A1, 1A2, 1B1, 2A6, 2B6, 2C8, 2C9, 2C18, 2C19, 2E1, 3A4, 3A5, 3A7, 4A11, 4B1	2A6	1.5	100
Phenytoin	2C8, 2C9, 2C18, 2C19, 3A4	2B6, 2C8, 2C18, 2C19, 3A4, 3A5, 3A7	2C9, 11B1	2.5	300
Pioglitazone	2C8, 2C9, 3A4	3A4	2C8, 2C9, 2C19, 2D6	3.8	30
Piroxicam	2C8, 2C9	DNF	2C8, 2C9	3.1	20
Pravastatin	2C9, 3A4, 3A5	DNF	2C8, 2C9, 2D6, 3A4	1.6	30
Prednisolone	3A4, 3A5	3A4, 3A5	2A6, 3A4	1.6	10

78 Less-DILI-Concern Drugs	CYP substrates	CYP inducers	CYP inhibitors	Log <i>P</i>	Daily dose (mg)
Propranolol	1A2, 2C19, 2D6, 3A4, 3A5, 3A7	DNF	1A1, 1A2, 2D6	3.0	160
Pyrazinamide	1A2, 3A4	DNF	DNF	-0.6	1500
Ranitidine	1A2, 2C19, 2D6	DNF	1A2, 2D6, 3A4, 3A5	0.3	300
Ribavirin	DNF	DNF	DNF	-1.8	1000
Saquinavir	2D6, 3A4, 3A5, 3A7, 11A	DNF	2C8, 2C9, 2C19, 2D6, 3A4, 3A5	4.2	1800
Sertraline	1A2, 2B6, 2C9, 2C19, 2D6, 3A4	DNF	2B6, 2C9, 2C19, 2D6, 3A4	4.8	50
Simvastatin	2C8, 2D6, 3A4, 3A5, 3A7	DNF	2C8, 2C9, 2D6, 3A4	4.7	30
Spirolactone	DNF	3A4, 3A5, 11B1	2C8, 11B1	2.9	75
Tacrolimus	3A4, 3A5, 3A7	DNF	3A4	2.7	5
Thioguanine	DNF	DNF	DNF	-0.1	150
Tolbutamide	2C8, 2C9, 2C18, 2C19	DNF	2C8, 2C9	2.3	1500
Toremifene	1A1, 1A2, 3A4	DNF	DNF	7.2	60
Trazodone	2D6, 3A4, 3A5, 3A7	DNF	DNF	2.8	300
Trifluoperazine	1A2	DNF	DNF	5.0	20
Venlafaxine	2C9, 2C19, 2D6, 3A4	DNF	2B6, 2D6, 3A4	2.9	100
Warfarin	1A1, 1A2, 2C8, 2C9, 2C18, 2C19, 3A4	DNF	2C8, 2C9, 2C19	2.7	7.5
48 Non-DILI-Concern Drugs	CYP substrates	CYP inducers	CYP inhibitors	Log <i>P</i>	Daily dose (mg)
Albuterol	3A4	DNF	3A4	0.9	12
Alendronate	DNF	DNF	DNF	-1.2	10
Atropine	DNF	DNF	1A2	1.7	1.5
Benzonatate	DNF	DNF	DNF	1.6	600
Benzphetamine	2B6, 3A4	DNF	DNF	4.2	50
Benztropine	2C19, 2D6	DNF	DNF	3.9	2
Betaine	DNF	DNF	DNF	-3.0	600
Bethanechol	DNF	DNF	DNF	-1.0	45
Biperiden	DNF	DNF	2D6	3.6	10
Carbinoxamine	2B6, 2C8, 2C9, 2C19, 2E1, 3A4	DNF	2D6	3.2	16
Chlorhexidine	DNF	DNF	DNF	3.1	30
Clemastine	DNF	DNF	2D6, 3A4	4.8	2
Cyanocobalamin	DNF	DNF	DNF	0.0	1
Digoxin	3A4	DNF	DNF	2.0	0.25
Dihydroergotamine	3A4	DNF	3A4	3.2	4
Diphenhydramine	2D6	DNF	2D6	3.4	0.2

48 Non-DILI- Concern Drugs	CYP substrates	CYP inducers	CYP inhibitors	Log P	Daily dose (mg)
Ergocalciferol	2C11, 2J2, 3A4	3A4	DNF	7.6	250
Etidronic Acid	DNF	DNF	DNF	-0.7	0.4
Flavoxate	DNF	DNF	DNF	4.5	800
Folic Acid	2E1	DNF	DNF	-0.2	0.4
Guanethidine	DNF	3A4	DNF	1.2	30
Hydroxyzine	DNF	DNF	2D6	3.5	75
Isoproterenol	DNF	19A	1A1	1.1	60
Lactulose	DNF	DNF	DNF	-4.3	6700
Levocarnitine	2E1	DNF	DNF	-3.3	2000
Liothyronine	DNF	DNF	DNF	1.4	60
Meclizine	2D6	DNF	1A2	6.2	50
Metaproterenol	DNF	DNF	DNF	1.1	90
Methysergide	DNF	DNF	DNF	2.3	4
Metronidazole	2C9, 3A4	DNF	2C8, 2C9, 3A4	-0.3	2000
Metyrapone	DNF	3A4	2A6, 2E1, 3A4, 7A1, 11B1	1.8	2250
Metyrosine	DNF	DNF	DNF	-1.5	1000
Minoxidil	DNF	DNF	8A1	0.2	20
Neomycin	DNF	DNF	DNF	-9.0	5000
Nystatin	DNF	DNF	DNF	-2.6	1.5MU
Oxybutynin	3A4, 3A5	DNF	2C8, 2D6, 3A4	4.6	15
Paromomycin	DNF	DNF	DNF	-8.7	3000
Penbutolol	DNF	DNF	DNF	3.6	40
Phendimetrazine	Unspecified CYP isoforms	DNF	DNF	2.0	105
Phenoxybenzamine	3A4	DNF	DNF	4.6	30
Phentermine	Unspecified CYP isoforms	2C9	1A2, 2C9, 2E1, 3A	1.8	15
Phentolamine	DNF	DNF	DNF	3.0	10
Primaquine	1A2, 3A4	1A1, 1A2, 1B1	1A2, 2D6, 3A4	2.0	15
Primidone	2C19	1A2, 2B6, 2C9, 2C19, 3A4	DNF	0.9	1250
Procyclidine	DNF	DNF	DNF	4.0	25
Tamsulosin	2D6, 3A4	DNF	DNF	2.7	0.4
Tranexamic Acid	DNF	DNF	DNF	-1.8	2000
Vancomycin	DNF	DNF	DNF	-2.9	2000

The drug list is from paper ([Chen et al., 2011](#)).

*Data for CYP enzymes are from Pharmapendium, PubMed, PubChem, DrugBank, and SuperCYP

DNF: Data not found.

Unspecified CYP isoforms: CYP enzymes involved in drug metabolism were not specified.

Daily dose is the defined daily dose (DDD) from World Health Organization (WHO) if available, otherwise will be the recommended daily dose in FDA-approved drug labels and literature searches. For drugs with several reported daily doses, the average value dose is used.

Log P value is from paper ([Chen et al., 2013a](#)) if available, otherwise will be the XLogP3 value from PubChem.