

Reference for examples of clinical index substrates for P450-mediated metabolisms

Isoform	Substrate	Inhibitor	AUCR	Reference*	Comment
1A2	caffeine	enoxacin	5.72	10096258	
1A2	caffeine	fluvoxamine	13.72	16236038	
1A2	tizanidine	ciprofloxacin	9.74	15592331	
1A2	tizanidine	fluvoxamine	32.73	15060511	
2C8	repaglinide	clopidogrel	5.08	24971633	
2C8	repaglinide	gemfibrozil	8.26	21778352	
2C9	tolbutamide	fluconazole	2.09	2330488	
2C9	tolbutamide	sulfaphenazole	3.10	3383988	
2C9	warfarin	miconazole	3.03	1611805	
2C9	warfarin	fluconazole	2.12	20622200	
2C9	warfarin	amiodarone	2.00	3621782	
2C19	lansoprazole	fluvoxamine	3.83	15496639	CYP2C19 EM subjects
2C19	lansoprazole	fluoxetine	2.94	21877765	
2C19	omeprazole	fluoxetine	7.08	24569517	
2C19	omeprazole	fluconazole	6.29	11932962	
2C19	omeprazole	ticlopidine	6.22	16272957	CYP2C19 EM subjects
2C19	omeprazole	fluvoxamine	5.62	15025747	CYP2C19 EM subjects
2D6	desipramine	fluoxetine	7.78	1544284	
2D6	desipramine	paroxetine	5.46	9241008	
2D6	dextromethorphan	quinidine	47.83	15342614	CYP2D6 EM subjects
2D6	dextromethorphan	fluoxetine	27.21	24569517	
2D6	nebivolol	fluoxetine	6.57	20489028	CYP2D6 EM subjects
2D6	nebivolol	paroxetine	6.15	24845234	
3A	midazolam	clarithromycin	9.61	9728893	
3A	midazolam	itraconazole	10.77	8181191	
3A	midazolam	ketoconazole	15.90	8181191	
3A	midazolam	mibefradil	8.86	14517191	
3A	midazolam	troleandomycin	14.83	15536460	
3A	triazolam	itraconazole	27.12	7995001	
3A	triazolam	ketoconazole	22.37	7995001	
3A	triazolam	mibefradil	8.36	10546924	
3A	triazolam	clarithromycin	5.26	9757151	

*PMID unless specified otherwise

Abbreviations

AUCR: area under the concentration-time curve ration of a substrate in the presence and absense of an inhibitor or inducer

EM: Extensive metabolizer

PMID: PubMed Unique Identifier