

Supplementary Table 1 Compound list of Nuclear Receptor Ligand Library

Plate Location	Compound Name	Molecule Weight	Solvent	Concentration	Activity
1-B1	25-Hydroxyvitamin D3	400.60	DMSO	10 mM	VDR agonist
1-B2	Retinoic acid, all trans	300.40	DMSO	10 mM	RAR agonist
1-B3	9-cis Retinoic acid	300.40	DMSO	10 mM	RXR agonist
1-B4	13-cis Retinoic acid	300.40	DMSO	10 mM	RAR agonist
1-B5	4-Hydroxyphenylretina mide	391.50	DMSO	10 mM	RAR agonist
1-B6	AM-580	351.40	DMSO	1 mM	RAR α agonist
1-B7	TTNPB	348.50	DMSO	1 mM	RAR agonist
1-B8	Methoprene acid	268.40	DMSO	10 mM	RXR agonist
1-B9	WY-14643	323.80	DMSO	10 mM	PPAR agonist
1-B10	Ciglitazone	333.40	DMSO	10 mM	PPAR γ agonist
1-B11	Tetradecylthioacetic acid	288.50	DMSO	10 mM	PPAR agonist
1-B12	5,8,11,14-Eicosatetrayno ic acid	296.40	DMSO	10 mM	PPAR α agonist
1-C1	6-Formylindolo [3,2-B] carbazole	284.30	DMSO	10 mM	AHR agonist
1-C2	Diindolylmethane	246.30	DMSO	10 mM	AHR agonist
1-C3	Acetyl-S-farnesyl-L-cyst eine	367.50	DMSO	10 mM	Farnesoid
1-C4	S-Farnesyl-L-cysteine methyl ester	339.50	DMSO	10 mM	Farnesoid
1-C5	N-Acetyl-S-geranygeran yl-L-cysteine	435.70	DMSO	1 mM	Farnesoid

1-C6	Acetyl-geranyl-cysteine	299.40	DMSO	10 mM	Farnesoid
1-C7	Farnesylthioacetic acid	296.50	DMSO	1 mM	Farnesoid
1-C8	Bezafibrate	361.80	DMSO	10 mM	PPAR α agonist
1-C9	LY171883	318.40	DMSO	10 mM	PPAR γ agonist
1-C10	15-Deoxy-D12,14-prostaglandin J2	316.40	DMSO	1 mM	PPAR γ agonist
1-C11	Troglitazone	441.50	DMSO	10 mM	PPAR γ agonist
1-C12	CITCO	436.70	DMSO	10 mM	CAR agonist
1-D1	Paxilline	435.60	DMSO	10 mM	LXR agonist
1-D2	24(S)-Hydroxycholesterol	402.70	DMSO	10 mM	LXR agonist
1-D3	24(S),25-Epoxycholesterol	400.60	DMSO	10 mM	LXR agonist
1-D4	Pregnenolone-16(alpha)-carbonitrile	341.50	DMSO	10 mM	PXR/SXR agonist
1-D5	Blank				
1-D6	Clofibric acid	214.60	DMSO	10 mM	PPAR α agonist
1-D7	BADGE	340.40	DMSO	10 mM	PPAR γ antagonist
1-D8	GW9662	276.70	DMSO	10 mM	PPAR γ antagonist
1-D9	Gemfibrozil	250.30	DMSO	10 mM	PPAR α agonist
1-D10	GW7647	502.80	DMSO	10 mM	PPAR α agonist
1-D11	3,5-Diiodo-L-thyronine	525.10	DMSO	10 mM	THR agonist
1-D12	3,5-Diiodo-L-tyrosine	433.00	DMSO	10 mM	THR congener
1-E1	Blank				
1-E2	13-cis-Retinol	286.50	DMSO	10 mM	Retinoid
1-E3	Retinyl acetate	328.50	DMSO	10 mM	Retinoid

1-E4	3,5-Diiodo-4-hydroxyphenylpropionic acid	418.00	DMSO	10 mM	THR agonist
1-E5	Cholic acid	408.60	DMSO	10 mM	FXR agonist
1-E6	Deoxycholic acid	392.60	DMSO	10 mM	FXR agonist
1-E7	Chenodeoxycholic acid	392.60	DMSO	10 mM	FXR agonist
1-E8	Glycocholic acid	465.60	DMSO	10 mM	Cholesterol metabolite
1-E9	Glycodeoxycholic acid	449.60	DMSO	10 mM	Cholesterol metabolite
1-E10	Taurocholic acid	515.70	DMSO	10 mM	Cholesterol metabolite
1-E11	Taurodeoxycholic acid	499.70	DMSO	10 mM	Cholesterol metabolite
1-E12	Rifampicin	822.90	DMSO	10 mM	PXR agonist
1-F1	Dexamethasone	392.50	DMSO	10 mM	GR agonist
1-F2	Lithocholic acid	376.60	DMSO	10 mM	Cholesterol metabolite
1-F3	5 β -Pregnan-3,20-dione	316.50	DMSO	10 mM	PXR agonist
1-F4	Adapalene	412.50	DMSO	10 mM	Retinoic acid analog
1-F5	Farnesol	222.40	DMSO	10 mM	Farnesoid
1-F6	3 α , 5 α -Androstenol	274.40	DMSO	10 mM	CAR inverse agonist
1-F7	3 α , 5 α -Androstanol	276.50	DMSO	10 mM	CAR inverse agonist
1-F8	Z-Guggulsterone	312.40	DMSO	10 mM	FXR antagonist
1-F9	TCPOBOP	402.10	DMSO	10 mM	CAR agonist
1-F10	N-Oleoylethanolamide	325.50	DMSO	10 mM	PPAR α agonist
1-F11	GW4064	542.80	DMSO	10 mM	FXR agonist
1-F12	Geranylgeraniol	290.50	DMSO	10 mM	Farnesoid
1-G1	6 α -Fluorotestosterone	306.40	DMSO	10 mM	TR agonist
1-G2	Tamoxifen	371.50	DMSO	10 mM	ER antagonist

1-G3	Mifepristone	429.60	DMSO	10 mM	PR antagonist
1-G4	Estrone	270.40	DMSO	10 mM	ER agonist
1-G5	13(S)-Hydroxy-9Z,11E-octadecadienoic acid	296.40	DMSO	10 mM	PPAR γ agonist
1-G6	Cortisone	360.40	DMSO	10 mM	GR agonist
1-G7	Progesterone	314.50	DMSO	10 mM	PR agonist
1-G8	17 β -Estradiol	272.40	DMSO	10 mM	ER agonist
1-G9	Pregnenolone	316.50	DMSO	10 mM	Progesterone precursor
1-G10	Androstenedione	286.40	DMSO	10 mM	Testosterone precursor
1-G11	1 α ,25-Dihydroxyvitamin D3	416.60	DMSO	10 mM	VDR agonist
1-G12	Docosa-4Z,7Z,10Z,13Z,16Z,19Z-hexaenoic acid	328.50	DMSO	10 mM	RXR / FXR agonist
1-H1	3-Methylcholanthrene	268.40	DMSO	10 mM	AHR agonist
1-H2	Acitretin	326.40	DMSO	10 mM	Retinoid
1-H3	Pioglitazone	356.40	DMSO	10 mM	PPAR γ agonist
1-H4	4-Hydroxyretinoic acid	316.40	DMSO	10 mM	Retinoid metabolite