



Nuclear Receptor Assay Services for Drug Discovery

Yeast – 2 – Hybrid Assays

The following list of Yeast-2-Hybrid assays can be employed for identification of ligand dependent cofactor interactions for the respective Nuclear Receptors.

Nuclear Receptor Trivial Name	Nuclear Receptor Systematic Name	Domain	Reference Compound
DAX1	NR0B1	full length	orphan
SHP	NR0B2	full length	orphan
TR α	NR1A1	LBD	Triiodothyronine (T3)
TR β	NR1A2	full length and LBD	Triiodothyronine (T3)
RAR α	NR1B1	full length and LBD	ATRA
RAR β	NR1B2	full length and LBD	ATRA
RAR γ	NR1B3	full length and LBD	ATRA
PPAR α	NR1C1	LBD	GW7647
PPAR β/δ	NR1C2	LBD	GW501516
PPAR γ	NR1C3	LBD	Rosiglitazone (RGZ)
Rev-Erb α	NR1D1	LBD	orphan
Rev-Erb β	NR1D2	LBD	orphan
ROR α	NR1F1	LBD	orphan
ROR β	NR1F2	LBD	orphan
ROR γ	NR1F3	full length and LBD	T0901317
LXR α	NR1H2	full length and LBD	T0901317
LXR β	NR1H3	full length and LBD	T0901317
VDR	NR1I1	full length and LBD	1,25-Dihydroxycholecalciferol (VitD3)
PXR (SXR)	NR1I2	LBD	SR12813
HNF4 α	NR2A1	LBD	orphan
HNF4 γ	NR2A2	LBD	orphan
RXR α	NR2B1	full length and LBD	9-cis-Retinoic Acid (9cisRA)
RXR β	NR2B2	full length and LBD	9-cis-Retinoic Acid (9cisRA)
RXR γ	NR2B3	full length and LBD	9-cis-Retinoic Acid (9cisRA)
COUP-TF2	NR2F2	LBD	orphan
ER α	NR3A1	full length and LBD	17-Estradiol (b-Est)
ER β	NR3A2	full length and LBD	17-Estradiol (b-Est)
ERR α	NR3B1	LBD	Diethylstilbestrol (DES)
ERR γ	NR3B3	LBD	orphan
MR	NR3C2	full length and LBD	Aldosterone (Ald)
PR	NR3C3	full length and LBD	Progesterone (Prog)
AR	NR3C4	full length and LBD	Dihydrotestosterone (DHT)
LRH-1	NR5A2	LBD	orphan