

Recombinant Human NR1I2, Ligand Binding Domain

Cat. No. NR1I2-1896H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Nuclear Receptor Subfamily 1, Group I, Member 2 was expressed in <i>E. coli</i> .
Species	Human
Source	<i>E. coli</i>
Description	Nuclear pregnane X receptor (PXR; NR1I2) important component body's adaptive defense mechanism against toxic substances including foreign chemicals (xenobiotics, 2). PXR activated number endogenous exogenous chemicals including steroids, antibiotics, antimycotics, bile, herbal antidepressant St. John's wort. PXR known to regulate several additional genes encoding proteins involved xenobiotic metabolism, including multidrug resistance (MDR1), multidrug resistance-associated 2 (MRP2, 11), organic anion transporter polypeptide 2). Elucidation three-dimensional structure PXR ligand binding revealed it has, spherical ligand binding cavity allows it to interact wide range hydrophobic chemicals. Thus, unlike other nuclear receptors interact selectively their physiological ligands, PXR serves as generalized sensor hydrophobic toxins. PXR binds as heterodimer 9-cis retinoic acid receptor (NR2B) to DNA response elements regulatory regions cytochrome P450 3A monooxygenase genes number other genes involved metabolism elimination xenobiotics body.
Application	PXR-LBD ligand binding assays. Research Use Only analysis.
Formulation	Ligand assay detected immuno-blot .0.5 mg/ml (7.9) EDTA.

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GENE INFORMATION

Gene Name	NR1I2 nuclear receptor subfamily 1, group I, member 2 [Homo sapiens]
Synonyms	NR1I2; nuclear receptor subfamily 1, group I, member 2; BXR; PAR; PRR; PXR; SAR; SXR; ONR1; PAR1; PAR2; PARq; orphan nuclear receptor PXR; steroid and xenobiotic receptor
Gene ID	8856
mRNA Refseq	NM_003889
Protein Refseq	NP_003880
MIM	603065
UniProt ID	O75469
Chromosome Location	3q12-q13.3
Pathway	Gene Expression
Function	metal ion binding; sequence-specific DNA binding; protein binding; steroid hormone receptor activity; transcription coactivator activity; transcription factor activity; transcription repressor activity; zinc ion binding

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