

Recombinant Human NR1I2, Ligand Binding Domain

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

SPECIFICATION

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|-------------------------|--|
| 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

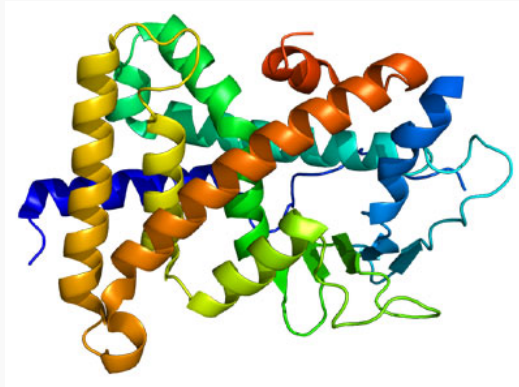
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|----------------------------|---|
| Gene Name | NR1I2 nuclear receptor subfamily 1, group I, member 2 [Homo sapiens] |
| Synonyms | NR1I2; nuclear receptor subfamily 1, group I, member 2; BXR; PAR; PRR; PXR; SAR; SXR; ONR1; PAR1; PAR2; PARq; orphan 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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