

## Recombinant Human NR1I2

Cat. No. NR1I2-31269TH Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length human PXR expressed in baculovirus system; amino acids 1-434, 50kDa.
<b>Species</b>	Human
<b>ProteinLength</b>	1-434 a.a.
<b>Description</b>	<p>This gene product belongs to the nuclear receptor superfamily, members of which are transcription factors characterized by a ligand-binding domain and a DNA-binding domain. The encoded protein is a transcriptional regulator of the cytochrome P450 gene CYP3A4, binding to the response element of the CYP3A4 promoter as a heterodimer with the 9-cis retinoic acid receptor RXR. It is activated by a range of compounds that induce CYP3A4, including dexamethasone and rifampicin. Several alternatively spliced transcripts encoding different isoforms, some of which use non-AUG (CUG) translation initiation codon, have been described for this gene. Additional transcript variants exist, however, they have not been fully characterized.</p>
<b>Tissue specificity</b>	Expressed in liver, colon and small intestine.
<b>Biological activity</b>	1 unit equals 1 nanogram of purified protein.NR1I2-31269TH binds to DNA as a heterodimer with RXR alpha; 1000U (1ug) required.
<b>Form</b>	Liquid
<b>Purity</b>	Immunogen affinity purified

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<b>Storage buffer</b>	Preservative: None Constituents: 20% Glycerol, 20mM Tris Cl, 100mM Potassium chloride, 1mM DTT, 0.2mM EDTA, pH 8.0
<b>Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
<b>Sequence Similarities</b>	Belongs to the nuclear hormone receptor family. NR1 subfamily. Contains 1 nuclear receptor DNA-binding domain.
<b>Full Length</b>	Full L.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	NR1I2 nuclear receptor subfamily 1, group I, member 2 [ Homo sapiens ]
<b>Official Symbol</b>	NR1I2
<b>Synonyms</b>	NR1I2; nuclear receptor subfamily 1, group I, member 2; nuclear receptor subfamily 1 group I member 2; BXR; ONR1; PAR2; PXR; SXR;
<b>Gene ID</b>	8856
<b>mRNA Refseq</b>	NM_003889
<b>Protein Refseq</b>	NP_003880
<b>MIM</b>	603065
<b>Uniprot ID</b>	O75469
<b>Chromosome Location</b>	3q12-q13.3

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**Pathway**

Gene Expression, organism-specific biosystem; Generic Transcription Pathway, organism-specific biosystem; Nuclear Receptor transcription pathway, organism-specific biosystem; Nuclear Receptors, organism-specific biosystem; Nuclear receptors in lipid metabolism and toxicity, organism-specific biosystem;

**Function**

drug binding; ligand-dependent nuclear receptor activity; metal ion binding; protein binding; receptor activity;

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