# Recombinant Human NR1I2

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

## SPECIFICATION

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| **Product Overview** | Recombinant full length human PXR expressed in baculovirus system; amino acids 1-434, 50kDa. |
| **Species** | Human |
| **ProteinLength** | 1-434 a.a. |
| **Description** | 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. |
| **Tissue specificity** | Expressed in liver, colon and small intestine. |
| **Biological activity** | 1 unit equals 1 nanogram of purified protein.NR1I2-31269TH binds to DNA as a heterodimer with RXR alpha; 1000U (1ug) required. |
| **Form** | Liquid |
| **Purity** | Immunogen affinity purified |

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| **Storage buffer** | Preservative: NoneConstituents: 20% Glycerol, 20mM Tris Cl, 100mM Potassium chloride, 1mM DTT, 0.2mM EDTA, pH 8.0 |
| **Storage** | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles. |
| **Sequence Similarities** | Belongs to the nuclear hormone receptor family. NR1 subfamily.Contains 1 nuclear receptor DNA-binding domain. |
| **Full Length** | Full L. |

## GENE INFORMATION

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| **Gene Name** | NR1I2 nuclear receptor subfamily 1, group I, member 2 [ Homo sapiens ] |
| **Official Symbol** | NR1I2 |
| **Synonyms** | NR1I2; nuclear receptor subfamily 1, group I, member 2; nuclear receptor subfamily 1 group I member 2; BXR; ONR1; PAR2; PXR; SXR; |
| **Gene ID** | 8856 |
| **mRNA Refseq** | NM_003889 |
| **Protein Refseq** | NP_003880 |
| **MIM** | 603065 |
| **Uniprot ID** | O75469 |
| **Chromosome Location** | 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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