Nuclear Receptor Subfamily 1 Group I Member 2 (NR1I2) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Nuclear receptor subfamily 1 group I member 2 (Nr1i2), Recombinant Protein
Full Product Name	Recombinant Mouse Nuclear receptor subfamily 1 group I member 2 (Nr1i2)
Product Gene Name	Nr1i2 recombinant protein
Sequence	MRPEESWSRV GLVQCEEADS ALEEPINVEE EDGGLQICRV CGDKANGYHF NVMTCEGCKG FFRRAMKRNV RLRCPFRKGT CEITRKTRRQ CQACRLRKCL ESGMKKEMIM SDAAVEQRRA LIKRKKREKI EAPPPGGQGL TEEQQALIQE LMDAQMQTFD TTFSHFKDFR LPAVFHSGCE LPEFLQASLL EDPATWSQIM KDRVPMKISL QLRGEDGSIW NYQPPSKSDG KEIIPLLPHL ADVSTYMFKG VINFAKVISY FRDLPIEDQI SLLKGATFEM CILRFNTMFD TETGTWECGR LAYCFEDPNG GFQKLLLDPL MKFHCMLKKL QLHKEEYVLM QAISLFSPDR PGVVQRSVVD QLQERFALTL KAYIECSRPY PAHRFLFLKI MAVLTELRSI NAQQTQQLLR IQDSHPFATP LMQELFSSTD G
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	44,958 Da
Sequence Positions	1-431, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for O54915
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Nr1i2 recombinant protein	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.
Other Notes	Small volumes of Nr1i2 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Nr1i2 purchase	MBS1232397 is a recombinant protein targeting Nr1i2. Also known as Recombinant Mouse Nuclear receptor subfamily 1 group I member 2 (Nr1i2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Nr1i2. It may not necessarily be applicable to this product.

NCBI GI #	148536879
NCBI GeneID	18171
NCBI Accession #	NP_001091874.1
UniProt Primary Accession #	O54915
UniProt Related Accession #	O54915
GenBank Nucleotide #	NM_001098404.1
NCBI Official Full Name	nuclear receptor subfamily 1 group I member 2 isoform 2
NCBI Official Synonym Full Names	nuclear receptor subfamily 1, group I, member 2
NCBI Official Symbol	Nr1i2
NCBI Official Synonym Symbols	PXR; SXR; PXR1; mPXR; PXR.1; PXR.2
UniProt Protein Name	Nuclear receptor subfamily 1 group I member 2
UniProt Synonym Protein Names	Orphan nuclear receptor PXR; Pregnane X receptor
Protein Family	Nuclear receptor subfamily
UniProt Gene Name	Nr1i2
UniProt Synonym Gene Names	Pxr
NCBI Protein Information	nuclear receptor subfamily 1 group I member 2
UniProt Comments for Nr1i2	Nuclear receptor that binds and is activated by a variety of endogenous and xenobiotic compounds. Transcription factor that activates the transcription of multiple genes involved in the metabolism and secretion of potentially harmful xenobiotics, endogenous compounds and drugs. Response to specific ligands is species-specific, due to differences in the ligand-binding domain. Binds to a response element in the promoters of the CYP3A4 and ABCB1/MDR1 genes (). Activated by naturally occurring steroids such as pregnenolone and progesterone, the cholesterol metabolite 5-beta-cholestane-3-alpha,7-alpha,12-alpha-triol, synthetic glucocorticoids and antiglucocorticoids and 16-alpha-carbonitrile (PCN).
Research Articles on Nr1i2	**1.** Both the acetylation and SUMOylation status of the PXR protein is affected by its ability to associate with the lysine de-acetylating enzyme HDAC3 in a complex with SMRT.
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