

## NR1I2 Protein, Human, Recombinant (His & Myc & SUMO)

### General Information

Synonyms:	Nuclear receptor subfamily 1 group I member 2;Orphan nuclear receptor PAR1;Orphan nuclear receptor PXR;NR1I2;PXR;Steroid and xenobiotic receptor (SXR);Pregnane X receptor
Protein Construction:	1-434 aa
Species:	Human
Expression Host:	E. coli
Accession:	O75469
Molecular Weight:	69.8 kDa (predicted)
AA Sequence:	MEVRPKESWNHADDFVHCEDTESVPGKPSVNADEEVGGPQICRVCGDKATGYHFNVMTCEGCKGFFRRAMK RNARLRCPFRKGACEITRKRTRRQCACRLRKCLESGMKKEMIMSDEAVEERRALIKRKKCERTGTQPLGVQGL TEEQRMMIRELMDAQMKTFDITFSHFKNFRLPGVLSSGCELPESLQAPSREEAAKWSQVRKDLCSLKVSLQL RGEDGSVWNYKPPADSGGKEIFSLPHMADMSTYMFKGIISFAKVISYFRDLPIEDQISLLKGAAFELCQLRFN TVFNAETGTWECGRLSYCLEDTAGGFQQLLEPMLKFHYMLKKLQLHEEEYVLMQAISLFPDRPGVLQHRVV DQLQEQAIFLTKSYIECNRPQPAHRFLFKIMAMLELRSINAQHTQRLRLRIQDIHPFATPLMQELFGITGS

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

### Preparation and Storage

#### Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Nuclear receptor that binds and is activated by variety of endogenous and xenobiotic compounds. Transcription

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factor that activates the transcription of multiple genes involved in the metabolism and secretion of potentially harmful xenobiotics, drugs and endogenous compounds. Activated by the antibiotic rifampicin and various plant metabolites, such as hyperforin, guggulipid, colupulone, and isoflavones. Response to specific ligands is species-specific. Activated by naturally occurring steroids, such as pregnenolone and progesterone. Binds to a response element in the promoters of the CYP3A4 and ABCB1/MDR1 genes.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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