

Datasheet for ABIN7557585  
**NR1H2 Protein (AA 1-446) (His tag)**



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## Overview

Quantity:	1 mg
Target:	NR1H2
Protein Characteristics:	AA 1-446
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NR1H2 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant Nr1h2 Protein expressed in mammalian cells.
Sequence:	MSSPTSSLDT PVPNGSPQP STSATSPTIK EEGQETDPPP GSEGSSSAYI VVILEPEDEP ERKRKKG PAP KMLGHEL CRV CGDKASGFHY NVLSCEGCKG FFRRSVVHGG AGRYACRGSG TCQMDFMRR KCQLCRLRKC KEAGMREQCV LSEEQIRKKR IQKQQQQPP PPSEPAASSS GRPAASPGTS EASSQSGEG EGIQLTAAQE LMIQQLVAAQ LQCNKRFSFD QPKVTPWPLG ADPQSRDARQ QRFAHFTELA IISVQEIVDF AKQVPGFLQL GREDQIALLK ASTIEIMLLE TARRYNHETE CITFLKDFTY SKDDFHRAGL QVEFINPIFE FSRAMRRLGL DDAEYALLIA INIFSADRPN VQEPSRVEAL QQPVEALLS YTRIKRPQDQ LRFPRMLMKL VSLRTLSSVH SEQVFALRLQ DKKLPPLLSE IWDVHE <b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</b>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

## Product Details

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### Characteristics:

#### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

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### Purity:

> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

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### Grade:

custom-made

## Target Details

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### Target:

NR1H2

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### Alternative Name:

Nr1h2 ([NR1H2 Products](#))

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### Background:

Oxysterols receptor LXR-beta (Liver X receptor beta) (Nuclear receptor subfamily 1 group H member 2) (Retinoid X receptor-interacting protein No.15) (Ubiquitously-expressed nuclear receptor),FUNCTION: Nuclear receptor that exhibits a ligand-dependent transcriptional activation activity (PubMed:18055760, PubMed:19520913, PubMed:20427281). Binds preferentially to double-stranded oligonucleotide direct repeats having the consensus half-site sequence 5'-AGGTCA-3' and 4-nt spacing (DR-4) (PubMed:18055760, PubMed:19520913, PubMed:20427281). Regulates cholesterol uptake through MYLIP-dependent ubiquitination of LDLR, VLDLR and LRP8, DLDLR and LRP8 (PubMed:18055760, PubMed:19520913, PubMed:20427281). Interplays functionally with RORA for the regulation of genes involved in liver metabolism (PubMed:18055760, PubMed:19520913, PubMed:20427281, PubMed:24206663, PubMed:28846071). Induces LPCAT3-dependent phospholipid remodeling in endoplasmic reticulum (ER) membranes of hepatocytes, driving SREBF1 processing and lipogenesis (PubMed:28846071, PubMed:25806685). Via LPCAT3, triggers the incorporation of

## Target Details

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arachidonate into phosphatidylcholines of ER membranes, increasing membrane dynamics and enabling triacylglycerols transfer to nascent very low-density lipoprotein (VLDL) particles (PubMed:25806685). Via LPCAT3 also counteracts lipid-induced ER stress response and inflammation, likely by modulating SRC kinase membrane compartmentalization and limiting the synthesis of lipid inflammatory mediators (PubMed:24206663). Plays an anti-inflammatory role during the hepatic acute phase response by acting as a corepressor: inhibits the hepatic acute phase response by preventing dissociation of the N-Cor corepressor complex (By similarity). {ECO:0000250|UniProtKB:P55055, ECO:0000269|PubMed:18055760, ECO:0000269|PubMed:19520913, ECO:0000269|PubMed:20427281, ECO:0000269|PubMed:24206663, ECO:0000269|PubMed:25806685, ECO:0000269|PubMed:28846071}.

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Molecular Weight: 49.7 kDa

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UniProt: [Q60644](#)

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Pathways: [Nuclear Receptor Transcription Pathway](#), [Retinoic Acid Receptor Signaling Pathway](#), [Steroid Hormone Mediated Signaling Pathway](#), [Nuclear Hormone Receptor Binding](#)

## Application Details

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Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months