

Datasheet for ABIN7554777
NR1H3 Protein (AA 1-447) (His tag)



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Overview

Quantity:	1 mg
Target:	NR1H3
Protein Characteristics:	AA 1-447
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NR1H3 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat NR1H3 Protein expressed in mammalian cells.
Sequence:	<p>MSLWLGA PVP DIP PDS AVEL WKPGA QDASS QAQGGSSCIL REEARM PHSA GG TAGV GLEA AEPTALLTRA EPPSEPT EIR PQKRKKGPAP KMLGNELCSV CGDKASGFHY NVLSCEGCKG FFRRSVIKGA HYICHSGGHC PMDTYMRRKC QECRLR KCRQ AGMREECVLS EEQIRLKKLK RQEEQAHAT SLPPRASSPP QILPQLSPEQ LGMIEKLVAQ QQCNRRSFS DRLRVTPWPM APDPHSREAR QQRFAHFT EL AIVSVQEIVD FAKQLPGFLQ LSREDQIAL KTS AIEV MLL ETSRRYNPGS ESITFLKDFS YNREDFAKAG LQVEFINPIF EFSRAMNELQ LND AEFALLI AISIFSADRP NVQDQLQVER LQHTYVEALH AYSIHHPHD RLMFPRMLMK LVSLRTLSSV HSEQVFALRL QDKKL PPLLS EIWDVHE</p> <p>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.</p>
Characteristics:	Key Benefits:

Product Details

- 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.

Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
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Grade:	custom-made
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Target Details

Target:	NR1H3
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Alternative Name:	NR1H3 (NR1H3 Products)
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Background:	<p>Oxysterols receptor LXR-alpha (Liver X receptor alpha) (Nuclear receptor subfamily 1 group H member 3),FUNCTION: Nuclear receptor that exhibits a ligand-dependent transcriptional activation activity (PubMed:19481530, PubMed:25661920). Interaction with retinoic acid receptor (RXR) shifts RXR from its role as a silent DNA-binding partner to an active ligand-binding subunit in mediating retinoid responses through target genes defined by LXRES (By similarity). LXRES are DR4-type response elements characterized by direct repeats of two similar hexanucleotide half-sites spaced by four nucleotides (By similarity). Plays an important role in the regulation of cholesterol homeostasis, regulating cholesterol uptake through MYLIP-dependent ubiquitination of LDLR, VLDLR and LRP8 (PubMed:19481530). Interplays functionally with RORA for the regulation of genes involved in liver metabolism (By similarity). Induces LPCAT3-dependent phospholipid remodeling in endoplasmic reticulum (ER) membranes of hepatocytes, driving SREBF1 processing and lipogenesis (By similarity). Via LPCAT3, triggers the incorporation of arachidonate into phosphatidylcholines of ER membranes, increasing membrane dynamics and enabling triacylglycerols transfer to nascent</p>
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Target Details

	very low-density lipoprotein (VLDL) particles. 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 (By similarity). {ECO:0000250 UniProtKB:Q9Z0Y9, ECO:0000269 PubMed:19481530, ECO:0000269 PubMed:25661920}.
Molecular Weight:	50.4 kDa
UniProt:	Q13133
Pathways:	Nuclear Receptor Transcription Pathway , Steroid Hormone Mediated Signaling Pathway , Nuclear Hormone Receptor Binding , Cellular Response to Molecule of Bacterial Origin , Hepatitis C

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months