Datasheet for ABIN7549818

NR1H2 Protein (AA 1-460) (His tag)

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Overview

Quantity:	1 mg
Target:	NR1H2
Protein Characteristics:	AA 1-460
Origin:	Human
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:	MSSPTTSSLD TPLPGNGPPQ PGAPSSSPTV KEEGPEPWPG GPDPDVPGTD EASSACSTDW VIPDPEEEPE RKRKKGPAPK MLGHELCRVC GDKASGFHYN VLSCEGCKGF FRRSVVRGGA RRYACRGGGT CQMDAFMRRK CQQCRLRKCK EAGMREQCVL SEEQIRKKKI RKQQQESQSQ SQSPVGPQGS SSSASGPGAS PGGSEAGSQG SGEGEGVQLT AAQELMIQQL VAAQLQCNKR SFSDQPKVTP WPLGADPQSR DARQQRFAHF TELAIISVQE IVDFAKQVPG FLQLGREDQI ALLKASTIEI MLLETARRYN HETECITFLK DFTYSKDDFH RAGLQVEFIN PIFEFSRAMR RLGLDDAEYA LLIAINIFSA DRPNVQEPGR VEALQQPYVE ALLSYTRIKR PQDQLRFPRM LMKLVSLRTL SSVHSEQVFA LRLQDKKLPP LLSEIWDVHE **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.**
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different

Product Details

	isoform, please contact us regarding an individual offer.
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.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	NR1H2
Alternative Name:	NR1H2 (NR1H2 Products)
Background:	Oxysterols receptor LXR-beta (Liver X receptor beta) (Nuclear receptor NER) (Nuclear receptor subfamily 1 group H member 2) (Ubiquitously-expressed nuclear receptor),FUNCTION: Nuclear receptor that exhibits a ligand-dependent transcriptional activation activity (PubMed:25661920). Binds preferentially to double-stranded oligonucleotide direct repeats having the consensus half-site sequence 5'-AGGTCA-3' and 4-nt spacing (DR-4). Regulates cholesterol uptake through MYLIP-dependent ubiquitination of LDLR, VLDLR and LRP8, DLDLR and LRP8. 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 very low-density lipoprotein (VLDL) particles (By similarity).

Target Details

	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). 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 (PubMed:20159957). {ECO:0000250|UniProtKB:Q60644, ECO:0000269|PubMed:20159957, ECO:0000269|PubMed:25661920}.
Molecular Weight:	51.0 kDa
UniProt:	P55055
Pathways:	Nuclear Receptor Transcription Pathway, Retinoic Acid Receptor Signaling Pathway, Steroid Hormone Mediated Signaling Pathway, Nuclear Hormone Receptor Binding

Application Details

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.
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