antibodies

Datasheet for ABIN3137580 NR1H3 Protein (AA 1-445) (Strep Tag)



Overview

Quantity:	1 mg
Target:	NR1H3
Protein Characteristics:	AA 1-445
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NR1H3 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Characteristics:	Key Repetits
	have a special request, please contact us.
	system, a different complexity of the protein could make another tag necessary. In case you
	Sequence without tag. The proposed Strep-Tag is based on experience s with the expression
	EQVFALRLQD KKLPPLLSEI WDVHE
	SIFSADRPNV QDQLQVERLQ HTYVEALHAY VSINHPHDPL MFPRMLMKLV SLRTLSSVHS
	SRRYNPGSES ITFLKDFSYN REDFAKAGLQ VEFINPIFEF SRAMNELQLN DAEFALLIAI
	DPQSREARQQ RFAHFTELAI VSVQEIVDFA KQLPGFLQLS REDQIALLKT SAIEVMLLET
	EEEQAQATSV SPRVSSPPQV LPQLSPEQLG MIEKLVAAQQ QCNRRSFSDR LRVTPWPIAP
	RRSVIKGARY VCHSGGHCPM DTYMRRKCQE CRLRKCRQAG MREECVLSEE QIRLKKLKRQ
	PTALLPRAET LPEPTELRPQ KRKKGPAPKM LGNELCSVCG DKASGFHYNV LSCEGCKGFF
Sequence:	MSLWLEASMP DVSPDSATEL WKTEPQDAGD QGGNTCILRE EARMPQSTGV ALGIGLESAE

Characteristics:

Key Benefits:

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- · Made in Germany from design to production by highly experienced protein experts.
- Protein expressed with ALICE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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 will ensure that you receive a correctly folded protein.

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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
 protein production are removed, leaving only the protein production machinery and the
 mitochondria to drive the reaction. During our lysate completion steps, the additional
 components needed for protein production (amino acids, cofactors, etc.) are added to
 produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

- 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.
- Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

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Product Details

Purity:	\geq 80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

Target Details

Target:	NR1H3
Alternative Name:	Nr1h3 (NR1H3 Products)
Background:	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:18055760, PubMed:19520913, PubMed:20427281). Interaction wit
	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.
	LXRES are DR4-type response elements characterized by direct repeats of two similar
	hexanuclotide half-sites spaced by four nucleotides. Plays an important role in the regulation o
	cholesterol homeostasis, regulating cholesterol uptake through MYLIP-dependent
	ubiquitination of LDLR, VLDLR and LRP8. Interplays functionally with RORA for the regulation o
	genes involved in liver metabolism (By similarity). 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 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 El
	stress response and inflammation, likely by modulating SRC kinase membrane
	compartmentalization and limiting the synthesis of lipid inflammatory mediators
	(PubMed:24206663). {ECO:0000250 UniProtKB:Q13133, ECO:0000269 PubMed:18055760,
	ECO:0000269 PubMed:19520913, ECO:0000269 PubMed:20427281,
	ECO:0000269 PubMed:24206663, ECO:0000269 PubMed:25806685,
	ECO:0000269 PubMed:28846071}.
Molecular Weight:	50.4 kDa
UniProt:	Q9Z0Y9
Pathways:	Nuclear Receptor Transcription Pathway, Steroid Hormone Mediated Signaling Pathway,
	Nuclear Hormone Receptor Binding, Cellular Response to Molecule of Bacterial Origin, Hepatitis
	C

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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.
Comment:	 ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications. During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expine Data:	Liplimited (if stored properly)

Expiry Date: Unlimited (if stored properly)