

Datasheet for ABIN7554440

Lipin 1 Protein (LPIN1) (AA 1-890) (His tag)



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Overview

Quantity:	1 mg
Target:	Lipin 1 (LPIN1)
Protein Characteristics:	AA 1-890
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Lipin 1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant LPIN1 Protein expressed in mammalian cells.
Sequence:	<p>MNYVGQLAGQ VFVTVKELYK GLNPATLSGC IDIIVIRQPN GNLQCSPFHV RFGKMGVLR REKVVDIEIN GESVDLHMKL GDNGEAFFVQ ETDNDQEVIP MHLATSPILS EGASRMECQL KRGSVDRMRG LDPSTPAQVI APSETPSSSS VVKRRRKRKR KSQDLSLKR DNMTSEDED MFPIEMSSDE AMELLESSRT LPNDIPPFQD DIPEENLSLA VIYPQSASYP NSDREWSPTP SPSGSRPSTP KSDSELVSKS TERTGQKNPE MLWLWGELPQ AAKSSSPHKM KESSPLSSRK ICDKSHFQAI HSESSDTFSD QSPTLVGGAL LDQNKPQTEM QFVNEEDLET LGAAAPLLPM IEELKPPSAS VVQTANKTDS PSRKRDKRSR HLGADGVYLD DLTDMPEVA ALYFPKNGDP SGLAKHASDN GARSANQSPQ SVGSSGVDSG VESTSDGLRD LPSIAISLCG GLSDHREITK DAFLEQAVSY QQFVDNPAII DDPNLVVKIG SKYYNWTAA PLLLAMQAFQ KPLPKATVES IMRDKMPKKG GRWWFSWRGR NTTIKEESKP EQCLAGKAHS TGEQPPQLSL ATRVKHESSS SDEERAAAKP SNAGHLPLLP NVSYKKTLLR TSEQLKSLKL KNGPNDVVFS VTTQYQGTCT CEGTIYLWNW DDKVIISDID GTITRSDTLG HILPTLGKDW THQGIKLYH KVSQNGYKFL</p>

Product Details

YCSARAIGMA DMTRGYLHWV NERGTVLPQG PLLLSPTSLF SALHREVIEK KPEKFKVQCL
TDIKNLFFPN TEPFYAAFNG RPADVYSYKQ VGVSLNRIFT VNPKGELVQE HAKTNISSYV
RLCEVVDHVF PLLKRSHSSD FPCSDTFSNF TFWREPLPPF ENQDIHSASA **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 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: Lipin 1 (LPIN1)

Alternative Name: LPIN1 ([LPIN1 Products](#))

Background: Phosphatidate phosphatase LPIN1 (EC 3.1.3.4) (Lipin-1),FUNCTION: Acts as a magnesium-dependent phosphatidate phosphatase enzyme which catalyzes the conversion of phosphatidic acid to diacylglycerol during triglyceride, phosphatidylcholine and phosphatidylethanolamine biosynthesis and therefore controls the metabolism of fatty acids at different levels (PubMed:20231281, PubMed:29765047). Is involved in adipocyte differentiation

Target Details

(By similarity). Acts also as nuclear transcriptional coactivator for PPARGC1A/PPARA regulatory pathway to modulate lipid metabolism gene expression (By similarity). Recruited at the mitochondrion outer membrane and is involved in mitochondrial fission by converting phosphatidic acid to diacylglycerol (By similarity). {ECO:0000250|UniProtKB:Q91ZP3, ECO:0000269|PubMed:20231281, ECO:0000269|PubMed:29765047}.

Molecular Weight: 98.7 kDa

UniProt: [Q14693](#)

Pathways: [Monocarboxylic Acid Catabolic Process](#)

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