

Datasheet for ABIN7564833

Lipin 1 Protein (LPIN1) (AA 1-924) (His tag)



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Overview

Quantity:	1 mg
Target:	Lipin 1 (LPIN1)
Protein Characteristics:	AA 1-924
Origin:	Mouse
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 GSLQCSPFHV RFGKMGVLRS REKVVDIEIN GESVDLHMKL GDNGEAFFVQ ETDNDQEIIP MYLATSPILS EGAARMESQL KRNSVDRIRC LDPTTAAQGL PPSDTPSTGS LGKKRRKRRR KAQLDNLKRD DNVNSSEDED MFPIEMSSDE DTAPMDGSRT LPNDVPPFQD DIPKENFPSI STHPQSASYP SSDREWSPSP SSLVDCQRTP PHLAEGVLSS SCPLQSCHFH ASESPPSGSRP STPKSDSELV SKSADRLTPK NNLEMLWLWG ELPQAAKSSS PHKMKESSPL GSRKTPDKMN FQAIHSESSD TFSQSQPTMA RGLLIHQSKA QTEMQFVNEE DLESLGAAAP PSPVAEELKA PYPNTAQSSS KTDSPSRKKD KRSRHLGADG VYLDDLTDMD PEVAALYFPK NGDPGGLPKQ ASDNGARSAN QSPQSVGGSG IDSGVESTSD SLRDLPSIAI SLCGGLSDHR EITKDAFLEQ AVSYQQFADN PAIIDDPNLV VKVGNKYYNW TTAAPLLLAM QAFQKPLPKA TVESIMRDKM PCKGGRWWFS WRGRNATIKE ESKPEQCLTG KGHNTGEQPA QLGLATRIKH ESSSSDEEHA AAKPSGSSHL SLLSNVSYKK TLRLTSEQLK SLKLNKPNPND VVFSVTTQYQ GTCRCEGTIY LWNWDDKVII SDIDGTITRS</p>

Product Details

DTLGHILPTL GKDWTHQGIA KLYHKVSQNG YKFLYCSARA IGMADMTRGY LHWVNERGTV
LPQGPLLLSP SSLFSALHRE VIEKKPEKFK VQCLTDIKNL FFPNTEPFYA AFGNRPADVY
SYKQVGVSLN RIFTVNPKEGE LVQEHAKTNI SSVYRLCEVV DHVFPLLKRS HSCDFPCSDT
FSNFTFWREP LPPFENQDMH SASA **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) (Fatty liver dystrophy protein) (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:17158099). Acts also as nuclear

Target Details

transcriptional coactivator for PPARGC1A/PPARA regulatory pathway to modulate lipid metabolism gene expression (PubMed:16950137). Is involved in adipocyte differentiation (PubMed:16049017). {ECO:0000269|PubMed:16049017, ECO:0000269|PubMed:16950137, ECO:0000269|PubMed:17158099}., FUNCTION: [Isoform 1]: Recruited at the mitochondrion outer membrane and is involved in mitochondrial fission by converting phosphatidic acid to diacylglycerol. {ECO:0000269|PubMed:21397848}.

Molecular Weight: 102.0 kDa

UniProt: [Q91ZP3](#)

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