

Recombinant Human LPIN1 Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. LPIN1-320H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	LPIN1 MS Standard C13 and N15-labeled recombinant protein (NP_663731) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a magnesium-ion-dependent phosphatidic acid phosphohydrolase enzyme that catalyzes the penultimate step in triglyceride synthesis including the dephosphorylation of phosphatidic acid to yield diacylglycerol. Expression of this gene is required for adipocyte differentiation and it also functions as a nuclear transcriptional coactivator with some peroxisome proliferator-activated receptors to modulate expression of other genes involved in lipid metabolism. Mutations in this gene are associated with metabolic syndrome, type 2 diabetes, acute recurrent rhabdomyolysis, and autosomal recessive acute recurrent myoglobinuria (ARARM). This gene is also a candidate for several human lipodystrophy syndromes. [provided by RefSeq, Mar 2017]
Molecular Mass	98.5 kDa
AA Sequence	MNYVGQLAGQVFVTVKELYKGLNPATLSGCIDIIVIRQPNGNLQCSPFHVRFGKMGV LRSREKVVVDIEINGESVDLHMKLGDNGEAFFVQETDNDQEVIPMHLATSPILSEGAS RMECQLKRGSVDRMRGLDPSTPAQVIAPSETPSSSSVVKRRRKRRLKSLDSLKR

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DDNMNTSEDEDMPFIEMSSDEAMELLESSRTLNDIPPFQDDIPEENLSLAVIYPQSA
 SYPNSDREWSPTSPSPSGSRPSTPKSDSELVSKSTERTGQKNPEMLWLWGELPQAA
 KSSSPHKMKESSPLSSRKICDKSHFQAIHSESSDTFSDQSPTLVGGALLDQNKPQTE
 MQFVNEEDLETGAAAPLLPMIEELKPPSASVVQTANKTDSPSRKRDKRSRHLGAD
 GVYLDDLTDMDPEVAALYFPKNGDPGLAKHASDNGARSANQSPQSVGSSGVDSG
 VESTSDGLRDLPSIAISLCGGLSDHREITKDAFLEQAVSYQQFVDNPAIIDDPNLVVKI
 GSKYYNWTTAAPLLLAMQAFQKPLPKATVESIMRDKMPKKGGRWWFSWRGRNTTI
 KEESKPEQCLAGKAHSTGEQPPQLSLATRVKHESSSSDEERAAAKPSNAGHLPLLP
 NVSYKKTLRLTSEQLKSLKLKNGPNDVVFSVTTQYQGTCTCEGTIYLWNWDDKVIIS
 DIDGTITRSDTLGHILPTLGKDWTHQGIKLYHKVSQNGYKFLYCSARAIGMADMTR
 GYLHWWNERGTVLPQGPLLLSPSSLSALHREVIEKKPEKFKVQCLTDIKNLFFPNTE
 PFYAAFGNRPADVYSYKQVGVSLNRIFTVNPKGELVQEHAKTNISSYVRLCEVVDHV
 FPLLKRSHSSDFPCSDTFSNFTFWREPLPPFENQDIHSASATRTRPLEQKLISEEDLA
 ANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name LPIN1 lipin 1 [Homo sapiens (human)]

Official Symbol LPIN1

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Synonyms	LPIN1; lipin 1; phosphatidate phosphatase LPIN1; KIAA0188; lipin-1; PAP1; DKFZp781P1796;
Gene ID	23175
mRNA Refseq	NM_145693
Protein Refseq	NP_663731
MIM	605518
UniProt ID	Q14693
SDS-PAGE	