

Recombinant Human LPIN3 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. LPIN3-447H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	LPIN3 MS Standard C13 and N15-labeled recombinant protein (NP_075047) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The protein encoded by this gene is a member of the lipin family of proteins, and all family members share strong homology in their C-terminal region. This protein is thought to form hetero-oligomers with other lipin family members, while one family member, lipin 1, can also form homo-oligomers. This protein contains conserved motifs for phosphatidate phosphatase 1 (PAP1) activity as well as a domain that interacts with a transcriptional co-activator. Lipin complexes act in the cytoplasm to catalyze the dephosphorylation of phosphatidic acid to produce diacylglycerol, which is the precursor of both triglycerides and phospholipids. Lipin complexes are also thought to regulate gene expression as transcriptional co-activators in the nucleus. Alternative splicing results in multiple transcript variants.
Molecular Mass	93.4 kDa
AA Sequence	MNYVGQLAETVFGTVKELYRGLNPATLSSGIDVLVVKQVDGSFRCSPFHVRFGKLG VLRsREKVVdiELNGEPVDLHMKLGDSGEAFFVQELESDDHVPpGLCTSPIPWGG LSGFPSDSLqLGTASEPEGLVMAGTASTGRRKRRRRRKPKQKEDAVATDSSPEELE

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

AGAESELSLPEKLRPEPPGVQLEEKSSLQPKDIYPYSDGEWPPQASLSAGELTSPK
 SDSELEVRTPEPSPLRAESHMQWAWGRLPKVARAERPESVVLGRAGATSPPRG
 GPSTPSTSVAGGVDPLGLPIQQTEAGADLQPDTEPTLVGPPLHTPETEESKTQSS
 GDMGLPPASKSWSWATLEVVPVTGQPERVSRGKGSPKRSQHLGPSDIYLDLPSL
 DSENAALYFPQSDSGLGARRWSEPSSQKSLRDPNPEHEPEPTLDTVDTIALSLCGG
 LADSRDISLEKFNQHSVSYQDLTKNPGLDDPNLVVKINGKHYNWAVAAPMILSLQA
 FQKNLPKSTMDKLEREKMPRKGGRRWWFSWRRRDFLAEERSAQKEKTAAKEQQGE
 KTEVLSSDDADPSPVILEIPSLPPSTPPSTPTYKKSLRLSSDQIRRLNLQEGANDVV
 FSVTTQYQGTCRCKATIYLWKWDDKVVISDIDGTITKSDALGHILPQLGKDWITHQGIT
 SLYHKIQLNGYKFLYCSARAIGMADLTGKYLQWVSEGGCSLPKGPILLSPSSLFSALH
 REVIEKKPEVFKVACLSDIQQFLPHGQPFYAAFGNRPNDVFAYRQVGLPESRIFTV
 NPRGELIQELIKNHKSTYERLGEVVLLFPVARGPSTDLANPEYSNFCYWREPLPA
 VDLDTLDRTRPLEQKLISEEDLAANDILDYKDDDDKV

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 LPIN3 lipin 3 [Homo sapiens (human)]

Official Symbol LPIN3

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Synonyms	LPIN3; lipin 3; lipin 3 like, LPIN3L; phosphatidate phosphatase LPIN3; SMP2; lipin-3; LPIN3L; dJ450M14.2; dJ450M14.3; dJ620E11.2
Gene ID	64900
mRNA Refseq	NM_022896
Protein Refseq	NP_075047
MIM	605520
UniProt ID	Q9BQK8
SDS-PAGE	