Phosphatidate Phosphatase LPIN2 (LPIN2) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Phosphatidate phosphatase LPIN2 (Lpin2), Recombinant Protein
Full Product Name	Recombinant Mouse Phosphatidate phosphatase LPIN2 (Lpin2) , partial
Product Gene Name	Lpin2 recombinant protein
Product Synonym Gene Name	Lpin2
Sequence	YKKSLRLSSD QIAKLKLHDG PNDVVFSITT QYQGTCRCAG TIYLWNWNDK VIISDIDGTI TKSDALGQIL PQLGKDWTHQ GIARLYHSIN ENGYKFLYCS ARAIGMADMT RGYLHWVNDK GTILPRGPLM LSPSSLFSAF HREVIEKKPE KFKIECLNDI KNLFAPSRQP FYAAFGNRPN DVYAYTQVGV PDCRIFTVNP KGE
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	50,997 Da
Sequence Positions	632-834; C-terminal fragment.
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q99PI5
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Lpin2 recombinant protein	Mouse studies suggest that this gene functions during normal adipose tissue development and may play a role in human triglyceride metabolism. This gene represents a candidate gene for human lipodystrophy, characterized by loss of body fat, fatty liver, hypertriglyceridemia, and insulin resistance.
Other Notes	Small volumes of Lpin2 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Lpin2 purchase	MBS1421477 is a recombinant protein targeting Lpin2. Also known as Recombinant Mouse Phosphatidate phosphatase LPIN2 (Lpin2) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Lpin2. It may not necessarily be applicable to this product.

NCBI GI #	31543129
NCBI GeneID	64898
NCBI Accession #	NP_075020.2
UniProt Primary Accession #	Q99PI5

UniProt Secondary Accession #	Q8C357; Q8C7I8; Q8CC85; Q8CHR7
UniProt Related Accession #	Q99PI5
GenBank Nucleotide #	NM_022882.4
NCBI Official Full Name	phosphatidate phosphatase LPIN2 isoform 2
NCBI Official Synonym Full Names	lipin 2
NCBI Official Symbol	Lpin2
NCBI Official Synonym Symbols	AI481352; AW742896; 2610511G02Rik
UniProt Protein Name	Phosphatidate phosphatase LPIN2
UniProt Synonym Protein Names	Lipin-2
Protein Family	Phosphatidate phosphatase
UniProt Gene Name	Lpin2
NCBI Protein Information	phosphatidate phosphatase LPIN2
UniProt Comments for Lpin2	Plays important roles in controlling the metabolism of fatty acids at different levels. Acts as a magnesium-dependent phosphatidate phosphatase enzyme which catalyzes the conversion of phosphatidic acid to diacylglycerol during triglyceride, phosphatidylcholine and phosphatidylethanolamine biosynthesis in the reticulum endoplasmic membrane. Acts also as a nuclear transcriptional coactivator for PPARGC1A to modulate lipid metabolism.
Research Articles on Lpin2	**1.** Lipin 2 binds phosphatidic acid by the electrostatic hydrogen bond but the phosphorylation of lipin 2 is not induced by insulin signaling.
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