Lysophosphatidylcholine Acyltransferase 1 (LPCAT1) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	Lysophosphatidylcholine acyltransferase 1 (Lpcat1), Recombinant Protein
Full Product Name	Recombinant Rat Lysophosphatidylcholine acyltransferase 1 (Lpcat1), partial
Product Gene Name	Lpcat1 recombinant protein
Product Synonym Gene Name	Lpcat1
Sequence	MRLRGRGPRA APSSSSGAGD ARRLAPPGRN PFVHELRLSA LQKAQVAFMT LTLFPIR
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	59,762 Da
Sequence Positions	1-57
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 Q1HAQ0
Species	Rat
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Lpcat1 recombinant protein	MBS1339662 is a recombinant protein targeting Lpcat1. Also known as Recombinant Rat Lysophosphatidylcholine acyltransferase 1 (Lpcat1), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Lpcat1 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Lpcat1. It may not necessarily be applicable to this product.

NCBI GI #	213688411
NCBI GeneID	361467
NCBI Accession #	NP_001094205.1
UniProt Primary Accession #	Q1HAQ0
UniProt Related Accession #	Q1HAQ0
GenBank Nucleotide #	NM_001100735.1
NCBI Official Full Name	lysophosphatidylcholine acyltransferase 1

NCBI Official Synonym Full Names	lysophosphatidylcholine acyltransferase 1
NCBI Official Symbol	Lpcat1
NCBI Official Synonym Symbols	Aytl2; RGD1311599
UniProt Protein Name	Lysophosphatidylcholine acyltransferase 1
UniProt Synonym Protein Names	1-acylglycerophosphocholine O-acyltransferase; 1-alkylglycerophosphocholine O-acetyltransferase (EC:2.3.1.67); Acetyl-CoA:lyso-platelet-activating factor acetyltransferase; Acetyl-CoA:lyso-PAF acetyltransferase; Lyso-PAF acetyltransferase; LysoPAFAT; Acyltransferase-like 2
Protein Family	Lysophosphatidylcholine acyltransferase
UniProt Gene Name	Lpcat1
UniProt Synonym Gene Names	Aytl2; LPC acyltransferase 1; LPCAT-1; LysoPC acyltransferase 1; Acetyl-CoA:lyso-PAF acetyltransferase; Lyso-PAF acetyltransferase; LysoPAFAT
NCBI Protein Information	lysophosphatidylcholine acyltransferase 1
UniProt Comments for Lpcat1	Possesses both acyltransferase and acetyltransferase activities (PubMed:16864775). Activity is calcium-independent (). Mediates the conversion of 1-acyl-sn-glycero-3-phosphocholine (LPC) into phosphatidylcholine (PC) (PubMed:16864775). Displays a clear preference for saturated fatty acyl-CoAs, and 1-myristoyl or 1-palmitoyl LPC as acyl donors and acceptors, respectively (PubMed:16864775). May synthesize phosphatidylcholine in pulmonary surfactant, thereby playing a pivotal role in respiratory physiology (PubMed:16864775). Involved in the regulation of lipid droplet number and size ().
Research Articles on Lpcat1	**1.** These data show the histological localization of PAF synthases and its receptor in the spinal cord following peripheral nerve injury.
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