

Recombinant Mouse Lpcat2 Protein, Myc/DDK-tagged

Cat. No. Lpcat2-3808M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length lysophosphatidylcholine acyltransferase 2 (Lpcat2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Exhibits both acyltransferase and acetyltransferase activities. Activity is calcium-dependent. Catalyzes the conversion of lysophosphatidylcholine (1-acyl-sn-glycero-3-phosphocholine or LPC) into phosphatidylcholine (1,2-diacyl-sn-glycero-3-phosphocholine or PC). Catalyzes the conversion 1-acyl-sn-glycerol-3-phosphate (lysophosphatidic acid or LPA) into 1,2-diacyl-sn-glycerol-3-phosphate (phosphatidic acid or PA) by incorporating an acyl moiety at the sn-2 position of the glycerol backbone. Involved in platelet-activating factor (PAF) biosynthesis by catalyzing the conversion of the PAF precursor, 1-O-alkyl-sn-glycero-3-phosphocholine (lyso-PAF) into 1-O-alkyl-2-acetyl-sn-glycero-3-phosphocholine (PAF). Also converts lyso-PAF to 1-O-alkyl-2-acyl-sn-glycero-3-phosphocholine (PC), a major component of cell membranes and a PAF precursor. Under resting conditions, acyltransferase activity is preferred. Upon acute inflammatory stimulus, acetyltransferase activity is enhanced and PAF synthesis increases. Involved in the regulation of lipid droplet number and size.
Molecular Mass	60.7 kDa

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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Lpcat2 lysophosphatidylcholine acyltransferase 2 [Mus musculus (house mouse)]
Official Symbol	Lpcat2
Synonyms	LPCAT2; lysophosphatidylcholine acyltransferase 2; LPCAT-2; lysoPAFAT; lysoPAFAT/LPCAT2; LPC acyltransferase 2; acyltransferase like 1; acyltransferase-like 1; acyltransferase like 1A; lysoPC acyltransferase 2; lyso-PAF acetyltransferase; acetyl-CoA:lyso-PAF acetyltransferase; 1-acylglycerophosphocholine O-acyltransferase; 1-alkylglycerophosphocholine O-acetyltransferase; acyl-CoA:lysophosphatidylcholine acyltransferase member 1; acetyl-CoA:lyso-platelet-activating factor acetyltransferase; Ayt11; Ayt11a; lpafat1; A330042H22
Gene ID	270084
mRNA Refseq	NM_173014
Protein Refseq	NP_766602

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UniProt ID

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