

Recombinant Human LPCAT2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. LPCAT2-6441H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	LPCAT2 MS Standard C13 and N15-labeled recombinant protein (NP_060309) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a member of the lysophospholipid acyltransferase family. The encoded enzyme may function in two ways: to catalyze the biosynthesis of platelet-activating factor (1-O-alkyl-2-acetyl-sn-glycero-3-phosphocholine) from 1-O-alkyl-sn-glycerol-3-phosphocholine, and to catalyze the synthesis of glycerophospholipid precursors from arachidonyl-CoA and lysophosphatidylcholine. The encoded protein may function in membrane biogenesis and production of platelet-activating factor in inflammatory cells. The enzyme may localize to the endoplasmic reticulum and the Golgi.
Molecular Mass	60.2 kDa
AA Sequence	MSRCAQAAEVAATVPGAGVGNVGLRPPMVPRQASFFPPVPNPFVQQTQIGSARR VQIVLLGIILLPIRVLLVALILLWPFAAISTVCCPEKLTHPITGWRRKITQTALKFLGRA MFFSMGFIVAVKGKIASPLEAPVFVAAPHSTFFDGIACVVAGLPSMVSRNENAQVPLI GRLLRAVQPVLVSRVDPDSRKNTINEIHKRTTSGGEWPQILVFPEGTCTNRSCLITFK PGAFIPGVPVQPVLLRYPNKLDTVTWTWQGYTFIQLCMLTFCQLFTKVEVEFMPVQV PNDEEKNDPVLFAFKVRNLMAEALGIPVTDHTYEDCRLMISAGQLTLPMEAGLVEFT

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KISRKLKLDWDGVRKHLDEYASIASSSKGGRIIEFAKYLKLPVSDVLRQLFALFDR
 NHDGSIDFREYVIGLAVLCNPSNTEEIQVAFKLFDVDEDDGYITEEEFSTILQASLGVP
 DLDVSGLFKEIAQGDSISYEEFKSFALKHPEYAKIFTTYLDLQTCHVFSLPKEVQTTPS
 TASNKVSPEKHEESTSDKKDDTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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 **LPCAT2** lysophosphatidylcholine acyltransferase 2 [Homo sapiens (human)]

Official Symbol **LPCAT2**

Synonyms LPCAT2; lysophosphatidylcholine acyltransferase 2; acyltransferase like 1, AYTL1; FLJ20481; LPCAT-2; LPC acyltransferase 2; acyltransferase like 1; acyltransferase-like 1; lysoPC acyltransferase 2; lyso-PAF acetyltransferase; acetyl-CoA:lyso-PAF acetyltransferase; 1-acylglycerophosphocholine O-acyltransferase; 1-alkylglycerophosphocholine O-acetyltransferase; acyl-CoA:lysophosphatidylcholine acyltransferase 2; lyso-platelet-activating factor (PAF) acetyltransferase; acetyl-CoA:lyso-platelet-activating factor acetyltransferase; AYTL1; LysoPAFAT; DKFZp686H22112;

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Gene ID	54947
mRNA Refseq	NM_017839
Protein Refseq	NP_060309
MIM	612040
UniProt ID	Q7L5N7
SDS-PAGE	