

Recombinant Human LPCAT1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. LPCAT1-2015H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	LPCAT1 MS Standard C13 and N15-labeled recombinant protein (NP_079106) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a member of the 1-acyl-sn-glycerol-3-phosphate acyltransferase family of proteins. The encoded enzyme plays a role in phospholipid metabolism, specifically in the conversion of lysophosphatidylcholine to phosphatidylcholine in the presence of acyl-CoA. This process is important in the synthesis of lung surfactant and platelet-activating factor (PAF). Elevated expression of this gene may contribute to the progression of oral squamous cell, prostate, breast, and other human cancers.
Molecular Mass	59 kDa
AA Sequence	MRLRGCGPRAAPASSAGASDARLLAPPGRNPFVHELRLSALQKAQVALMTLTLFPV RLLVAAAMMLLAWPLALVASLGS AEKEPEQPPALWRKVVDLFLKAIMRTMWFAGGF HRVAVKGRQALPTEAAITLAPHSSYFDAIPVTMTMSSIVMKAESRDIPIWGTLIQYIR PVFVSRSDQDSRRKTVEEIKRRAQSNQKWPQIMIFPEGTCNRTCLITFKPGAFIPGA PVQPVVLRYPNKLDITWTWQGP GALEILWLTLCQFHNQVEIEFLPVYSPSEEEKRN PALYASNVRVM AEALGVSVTDYTFEDCQLALAEGQLRLPADTCLLEFARLVRGLGL KPEKLEKDLDRYSERARMKGGEKIGIAEFAASLEVPVSDLLEDMFSLFDESGSGEVD

 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

LRECVVALSVVCRPARTLDTIQLAFKMYGAQEDGSVGEGLSCILKTALGVAELTVT
DLFRAIDQEEKGKITFADFHRFAEMYPAFAEEYLYPDQTHFESCAETSPAPIPNGFCA
DFSPENS DAGRKPVRRKKLDTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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 [LPCAT1 lysophosphatidylcholine acyltransferase 1 \[Homo sapiens \(human\) \]](#)

Official Symbol [LPCAT1](#)

Synonyms LPCAT1; lysophosphatidylcholine acyltransferase 1; acyltransferase like 2, AYTL2; FLJ12443; LPCAT-1; lysoPAFAT; LPC acyltransferase 1; acyltransferase like 2; acyltransferase-like 2; lysoPC acyltransferase 1; lyso-PAF acetyltransferase; regulated by phosphonoformate; acetyl-CoA:lyso-PAF acetyltransferase; phosphonoformate immuno-associated protein 3; 1-acylglycerophosphocholine O-acyltransferase; 1-alkylglycerophosphocholine O-acetyltransferase; acyl-CoA:lysophosphatidylcholine acyltransferase 1; acetyl-CoA:lyso-platelet-activating factor acetyltransferase; AYTL2; lpcat; PFAAP3; FLJ41609;

Gene ID [79888](#)

 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

mRNA Refseq [NM_024830](#)

Protein Refseq [NP_079106](#)

MIM [610472](#)

UniProt ID [Q8NF37](#)

SDS-PAGE



 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