

Recombinant Human LPCAT1, His-tagged

Cat. No. LPCAT1-7568H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human LPCAT1 protein, fused to His-tag at N-terminus, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	79-534aa
Antigen Description	Lysophosphatidylcholine acyltransferase 1, also known as LPCAT1, belongs to the 1-acyl-sn-glycerol-3-phosphate acyltransferase family. It is a key enzyme for remodeling phospholipids, including phosphatidylcholine. LPCAT1 possesses both acyltransferase and acetyltransferase activities. It mediates the conversion of 1-acyl-sn-glycero-3-phosphocholine (LPC) into phosphatidylcholine (PC).
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1M Urea, 10% glycerol
Molecular Mass	53.4 kDa (479aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSSAEKEPE QPPALWRKVV DFLKAIMRT MWFAGGFHRV AVKGRQALPT EAAILTLAPH SSYFDAIPVT MTMSSIVMKA ESRDIPIWGT LIQYIRPVFV SRSDQDSRRK TVEEIKRRAQ SNGKWPQIMI FPEGTCNRT CLITFKPGAF IPGAPVQPVV LRYPNKLDTI TWTWQGPGAL EILWLTLCQF HNQVEIEFLP VYSPSEEEKR NPALYASNVR RVMAEALGVS VTDYTFEDCQ LALAEGQLRL PADTCLEFA RLVRLGLGLKP EKLEKDLDRY

 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

SERARMKGGE KIGIAEFAAS LEVPVSDLLE DMFSLFDESG SGEVDLRECV
 VALSVVCRPA RTLDTIQLAF KMYGAQEDGS VGEGDLSCIL KTALGVAELT
 VTDLFRAIDQ EEKGKITFAD FHRFAEMYPA FAEELYLPDQ THFESCAETS
 PAPIPNGFCA DFSPENS DAG RKPVRKKLD

Purity	>90% as determined by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Concentration	0.25 mg/ml

GENE INFORMATION

Gene Name	LPCAT1 lysophosphatidylcholine acyltransferase 1 [Homo sapiens]
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
Chromosome Location	5p15.33
Pathway	Ether lipid metabolism, organism-specific biosystem; Ether lipid metabolism, conserved biosystem; Fatty acid, triacylglycerol, and ketone body metabolism, organism-specific biosystem; Glycerophospholipid metabolism, organism-specific biosystem; Glycerophospholipid metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem;
Function	1-acylglycerophosphocholine O-acyltransferase activity; 1-alkylglycerophosphocholine O-acetyltransferase activity; calcium ion binding; transferase activity, transferring acyl groups;