

## Recombinant Human LPCAT1, His-tagged

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

### SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                      |
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| <b>Product Overview</b>    | Recombinant human LPCAT1 protein, fused to His-tag at N-terminus, was expressed in E.coli.                                                                                                                                                                                                                                                                                                           |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>              | E.coli                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>ProteinLength</b>       | 79-534aa                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Antigen Description</b> | 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). |
| <b>Form</b>                | Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1M Urea, 10% glycerol                                                                                                                                                                                                                                                                                                                            |
| <b>Molecular Mass</b>      | 53.4 kDa (479aa)                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>AA Sequence</b>         | MGSSHHHHHH SSGLVPRGSH MGSSAEKEPE QPPALWRKV VDFLLKAIMRT<br>MWFAGGFHRV AVKGRQALPT EAAILTLAPH SSYFDAIPVT MTMSSIVMKA<br>ESRDIPIWGT LIQYIRPVFV SRSDQDSRRK TVEEIKRRAQ SNGKWPQIMI<br>FPEGTCTNRT CLITFKPGAF IPGAPVQPVV LRYPNKLDTI TWTWQGPGAL<br>EILWLTLCQF HNQVEIEFLP VYSPSEEEKR NPALYASNVR RVMAEALGVS<br>VTDYTFEDCQ LALAEGQLRL PADTCLEFA RLV RGLGLKP EKLEKDLDRY                                             |

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SERARMKGGE KIGIAEFAAS LEVPVSDLLE DMFSLFDESG SGEVDLRECV  
VALSVVCRPA RTLDTIQLAF KMYGAQEDGS VGEGDLSCIL KTALGVAELT  
VTDLFRAIDQ EEKGKITFAD FHRFAEMYPFAAEYLYPDQ 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](#)

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|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>mRNA Refseq</b>         | NM_024830                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Protein Refseq</b>      | NP_079106                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>MIM</b>                 | 610472                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>UniProt ID</b>          | Q8NF37                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Chromosome Location</b> | 5p15.33                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Pathway</b>             | 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; |
| <b>Function</b>            | 1-acylglycerophosphocholine O-acyltransferase activity; 1-alkylglycerophosphocholine O-acetyltransferase activity; calcium ion binding; transferase activity, transferring acyl groups;                                                                                                                                                                                                             |