

Recombinant human LPCAT1 protein

Catalog Number: ATGP2012

PRODUCT INFORMATION

Expression system

E.coli

Domain

79-534aa

UniProt No.

Q8NF37

NCBI Accession No.

NP_079106

Alternative Names

Lysophosphatidylcholine acyltransferase 1, AYTL2, lpcat, PFAAP3

PRODUCT SPECIFICATION

Molecular Weight

53.4 kDa (479aa)

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1M urea, 10% glycerol

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE, Denatured

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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-glycerol-3-phosphocholine (LPC) into phosphatidylcholine (PC). Recombinant human LPCAT1 protein, fused to His-tag at N-terminus, was expressed in E. coli.

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Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGS>SAEKEPE QPPALWRKVV DFLLKAIMRT MWFAGGFHRV AVKGRQALPT
EAAILTLAPH SSYFDAIPVT MTMSSIVMKA ESRDIPIWGT LIQYIRPVFV SRSDQDSRRK TVEEIKRRAQ SNGKWPQIMI
FPEGTCTNRT CLITFKPGAF IPGAPVQPVV LRYPNKLDTI TWTWQGGAL EILWLTLCQF HNQVEIEFLP VYSPSEEEKR
NPALYASNVR RVMAEALGVS VTDYTFEDCQ LALAEGQLRL PADTCLLEFA RLVRGLGLKP EKLEKDLDRY SERARMKGGE
KIGIAEFAAS LEVPVSDLLE DMFSLFDESG SGEVDLRECV VALSVVCRPA RTLDTIQLAF KMYGAQEDGS VGEGDLSCIL
KTALGVAELT VTDLFRAIDQ EEKGGITFAD FHRFAEMYPA FAEELYPDQ THFESCAETS PAPIPNGFCA DFSPENSDAG
RKPVRKKLD

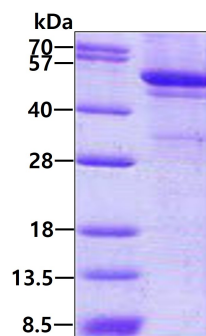
General References

Yamazaki T., et al. (2012) Biol Pharm Bull. 35(9):1509-15.

Kazachkov M., et al. (2001) Lipids. 43(10):895-902.

DATA

SDS-PAGE



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.