

AR50836PU-S

Human LPCAT1 (79-534, His-tag) - Purified

Alternate names:

AYTL2, LPC acyltransferase 1, LPCAT-1, LPCAT1, LysoPC acyltransferase 1, Lysophosphatidylcholine acyltransferase 1, PFAAP3

Quantity:

20 µg

Concentration:

0.25 mg/ml (determined by Bradford assay)

Background:

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).

Uniprot ID:

[Q8NF37](#)

NCBI:

[NP_079106](#)

GeneID:

[79888](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >90% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 1M Urea, 10% glycerol

Description:

Recombinant human LPCAT1 protein, fused to His-tag at N-terminus, was expressed in E.coli.

AA Sequence:

MGSSHHHHH SGLVPRGSH MGSSAEKEPE QPPALWRKV DFLKAIMRT MWFAGGFHRV
AVKGRQALPT EAAILTLAPH SSYFDAIPVT MTMSSIVMKA ESRDIPWGT LIQYIRPVFV
SRSDQDSRRK TVEEIKRRAQ SNGKWPQIMI FPEGTCNRT CLITFKPGAF IPGAPVQPVV
LRYPNKLDTI TWTWQGPAL EILWLTLCQF HNQVEIEFLP VYSPSEEEKR NPALYASNVR
RVMAEALGVS VTDYTFEDCQ LALAEGQLRL PADTCLLEFA RLVRGLGLKP EKLEKDLDRY
SERARMKGGE KIGIAEFAAS LEVPVSDLE DMFSLFDESG SGEVDLRECV VALSVVCRPA
RTLDTIQLAF KMYGAQEDGS VEGEDLSCIL KTALGVAELT VTDLFRAIDQ EEKGKITFAD
FHRFAEMYPFAEEYLYPDQ THFESCAETS PAPIPNGFCA DFSPENS DAG RKPVRKKLD

Molecular weight: 53.4 kDa (479aa)

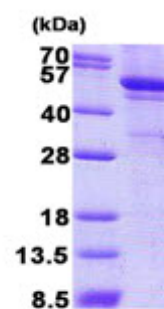
Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings:

Yamazaki T., et al. (2012) Biol Pharm Bull. 35(9):1509-15. Kazachkov M., et al. (2001) Lipids. 43(10):895-902.

Pictures:



15% SDS-PAGE (3ug)