

Product datasheet

Recombinant Human LPCAT1 protein (denatured)  
ab140540

1 Image

Description	
Product name	Recombinant Human LPCAT1 protein (denatured)
Purity	> 90 % SDS-PAGE.
Expression system	Escherichia coli
Accession	<u>Q8NF37</u>
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MGSSHHHHHH SSGLVPRGSH MGSSAEKEPE QPPALWRKVV DFLLKAIMRT MWFAGGFHRV AVKGRQALPT EAAILTLAPH SSYFDAIPVT MTMSSVMKA ESRDIPWGT LIQYIRPVFV SRSDQDSRRK TVEEIKRRAQ SNGKWPQIMI FPEGTCNRT CLITFKPGAF IPGAPVQPVV LRYPNKLDTI TWTWQGP GAL EILWLTLCQF HNQVEIEFLP VYSPSEEEKR NPALYASNVR RVMAEALGVS VTDYTFEDCQ LALAEGQLRL PADTCLLEFA RLVRGLGLKP EKLEKDLDRY SERARMKGGE KIGIAEFAAS LEVPVSDLLE DMFSLFDESG SGEVDLRECV VALSVVCRPA RTLDTIQLAF KMYGAQEDGS VGEDLSCIL KTALGVAELT VTDLFRAIDQ EEKGKITFAD FHRFAEMYP A FAEEYLPDQ THFESCAETS PAPIPNGFCA DFSPENS DAG RKPVRKKLD
Predicted molecular weight	53 kDa including tags
Amino acids	79 to 534
Tags	His tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab140540** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

**Applications** SDS-PAGE

**Form** Liquid

## Preparation and Storage

**Stability and Storage** Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

pH: 8.00

Constituents: 6% Urea, 0.32% Tris HCl, 10% Glycerol (glycerin, glycerine)

## General Info

**Function** Possesses both acyltransferase and acetyltransferase activities. Activity is calcium-independent. Mediates the conversion of 1-acyl-sn-glycerol-3-phosphocholine (LPC) into phosphatidylcholine (PC). Displays a clear preference for saturated fatty acyl-CoAs, and 1-myristoyl or 1-palmitoyl LPC as acyl donors and acceptors, respectively. May synthesize phosphatidylcholine in pulmonary surfactant, thereby playing a pivotal role in respiratory physiology.

**Pathway** Lipid metabolism; phospholipid metabolism.

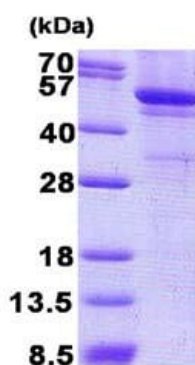
**Sequence similarities** Belongs to the 1-acyl-sn-glycerol-3-phosphate acyltransferase family. Contains 2 EF-hand domains.

**Domain** The HXXXXD motif is essential for acyltransferase activity and may constitute the binding site for the phosphate moiety of the glycerol-3-phosphocholine.

The di-lysine motif confers endoplasmic reticulum localization for type I membrane proteins.

**Cellular localization** Endoplasmic reticulum membrane. Golgi apparatus membrane.

## Images



15% SDS-PAGE analysis of ab140540 (3ug)

SDS-PAGE - Recombinant Human LPCAT1 protein  
(denatured) (ab140540)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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