

Datasheet for ABIN7564058

## LPCAT4 Protein (AA 1-524) (His tag)



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### Overview

Quantity:	1 mg
Target:	LPCAT4
Protein Characteristics:	AA 1-524
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LPCAT4 protein is labelled with His tag.

### Product Details

Purpose:	Custom-made recombinant Lpcat4 Protein expressed in mammalian cells.
Sequence:	<p>MSQGSPGAWA PLDPTSGSSA SPNPFVHELH LSGLRVKFC LLGVLLAPIR VLLAFIVLFL  LWPFQWLQVA GLTEEQLQEP ITGWRKTVCH NGVLGLSRLL FFLGFLRIR VRGQRASRL  APVLVAAPHS TFFDPIVLLP CDLPKVVSR ENLSVPVIGA LLRFNQAILV SRHDPASRRR  VVEEVRRRAT SGGKWPQVLF FPEGTCNNKK ALLKFKPGAF IAGVPVQPV LIRYPSLDTT  SWAWRGPGVL KVLWLTASQP CSIVDVEFLP VYQPSLEESK DPTLYANNVQ RVMAQALGIP  ATECEFGSL PVIVVGLKV ALEPQLWELA KVLQKAGLSP GFVDMGAEPG RSRMISQEAF  AQQQLSDPQ TVAGAFSYFQ QDAKGLVDFR NVALALAALD GGRSLEELTR LAFELFAEEQ  AEGSDRLLYK DGFSTILHLL LGSPRPAATT LHAELCQPGC SQGLSLCQFQ NFSLHDPLYG  KLFSAYLRPP HKPRSTSQIP NASSPSSPTA LANGTVQAPK QKGD</p> <p><b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</b></p>

## Product Details

Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none"><li>• Made to order protein - from design to production - by highly experienced protein experts.</li><li>• Protein expressed in mammalian cells and purified in one-step affinity chromatography</li><li>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.</li><li>• State-of-the-art algorithm used for plasmid design (Gene synthesis).</li></ul> <p>This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.</p>
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

## Target Details

Target:	LPCAT4
Alternative Name:	Lpcat4 ( <a href="#">LPCAT4 Products</a> )
Background:	<p>Lysophospholipid acyltransferase LPCAT4 (1-acylglycerol-3-phosphate O-acyltransferase 7) (1-AGP acyltransferase 7) (1-AGPAT 7) (1-acylglycerophosphocholine O-acyltransferase) (EC 2.3.1.23) (1-acylglycerophosphoserine O-acyltransferase) (EC 2.3.1.n6) (1-alkenylglycerophosphoethanolamine O-acyltransferase) (EC 2.3.1.121) (1-alkylglycerophosphocholine O-acyltransferase) (EC 2.3.1.67) (Acyltransferase-like 3) (Lysophosphatidylcholine acyltransferase 4) (Lysophosphatidylethanolamine acyltransferase 2) (EC 2.3.1.n7) (Plasmalogen synthase),FUNCTION: Displays acyl-CoA-dependent lysophospholipid acyltransferase activity with a subset of lysophospholipids as substrates, converts lysophosphatidylethanolamine to phosphatidylethanolamine, 1-alkenyl-lysophosphatidylethanolamine to 1-alkenyl-phosphatidylethanolamine, lysophosphatidylglycerol and alkyl-lysophosphatidylcholine to phosphatidylglycerol and alkyl-phosphatidylcholine,</p>

## Target Details

respectively. In contrast, has no lysophosphatidylinositol, glycerol-3-phosphate, diacylglycerol or lysophosphatidic acid acyltransferase activity. Prefers long chain acyl-CoAs (C16, C18) as acyl donors (By similarity). Converts lysophosphatidylcholine to phosphatidylcholine (PubMed:18156367). {ECO:0000250, ECO:0000250|UniProtKB:Q643R3, ECO:0000269|PubMed:18156367}.

Molecular Weight: 57.1 kDa

UniProt: [Q6NVG1](#)

## Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

## Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months