

## Datasheet for ABIN7554886 LPCAT1 Protein (AA 1-534) (His tag)



Overview

Quantity:	1 mg
Target:	LPCAT1
Protein Characteristics:	AA 1-534
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LPCAT1 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant LPCAT1 Protein expressed in mammalian cells.
Sequence:	MRLRGCGPRA APASSAGASD ARLLAPPGRN PFVHELRLSA LQKAQVALMT LTLFPVRLLV
	AAAMMLLAWP LALVASLGSA EKEPEQPPAL WRKVVDFLLK AIMRTMWFAG GFHRVAVKGR
	QALPTEAAIL TLAPHSSYFD AIPVTMTMSS IVMKAESRDI PIWGTLIQYI RPVFVSRSDQ
	DSRRKTVEEI KRRAQSNGKW PQIMIFPEGT CTNRTCLITF KPGAFIPGAP VQPVVLRYPN
	KLDTITWTWQ GPGALEILWL TLCQFHNQVE IEFLPVYSPS EEEKRNPALY ASNVRRVMAE
	ALGVSVTDYT FEDCQLALAE GQLRLPADTC LLEFARLVRG LGLKPEKLEK DLDRYSERAR
	MKGGEKIGIA EFAASLEVPV SDLLEDMFSL FDESGSGEVD LRECVVALSV VCRPARTLDT
	IQLAFKMYGA QEDGSVGEGD LSCILKTALG VAELTVTDLF RAIDQEEKGK ITFADFHRFA
	EMYPAFAEEY LYPDQTHFES CAETSPAPIP NGFCADFSPE NSDAGRKPVR KKLD 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.

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## 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:	Key Benefits:
	<ul> <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</li> </ul>
	<ul><li>transmembrane proteins.</li><li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li></ul>
	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.
	If you are not interested in a full length protein, please contact us for individual protein fragments.
	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.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

## Target Details

Target:	LPCAT1
Alternative Name:	LPCAT1 (LPCAT1 Products)
Background:	Lysophosphatidylcholine acyltransferase 1 (LPC acyltransferase 1) (LPCAT-1) (LysoPC
	acyltransferase 1) (EC 2.3.1.23) (1-acylglycerol-3-phosphate O-acyltransferase) (EC 2.3.1.51) (1-
	acylglycerophosphocholine O-acyltransferase) (1-alkenylglycerophosphocholine O-
	acyltransferase) (EC 2.3.1.25) (1-alkylglycerophosphocholine O-acetyltransferase) (EC 2.3.1.67)
	(Acetyl-CoA:lyso-platelet-activating factor acetyltransferase) (Acetyl-CoA:lyso-PAF
	acetyltransferase) (Lyso-PAF acetyltransferase) (LysoPAFAT) (Acyltransferase-like 2)
	(Phosphonoformate immuno-associated protein 3),FUNCTION: Exhibits acyltransferase activity
	(PubMed:21498505, PubMed:18156367). Exhibits acetyltransferase activity (By similarity).
	Activity is calcium-independent (By similarity). Catalyzes the conversion of
	lysophosphatidylcholine (1-acyl-sn-glycero-3-phosphocholine or LPC) into phosphatidylcholine
	(1,2-diacyl-sn-glycero-3-phosphocholine or PC) (PubMed:21498505, PubMed:18156367).

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	Catalyzes the conversion 1-acyl-sn-glycerol-3-phosphate (lysophosphatidic acid or LPA) into
	1,2-diacyl-sn-glycerol-3-phosphate (phosphatidic acid or PA) by incorporating an acyl moiety at
	the sn-2 position of the glycerol backbone (By similarity). Displays a clear preference for
	saturated fatty acyl-CoAs, and 1-myristoyl or 1-palmitoyl LPC as acyl donors and acceptors,
	respectively (By similarity). Involved in platelet-activating factor (PAF) biosynthesis by
	catalyzing the conversion of the PAF precursor, 1-0-alkyl-sn-glycero-3-phosphocholine (lyso-
	PAF) into 1-O-alkyl-2-acetyl-sn-glycero-3-phosphocholine (PAF) (By similarity). May synthesize
	phosphatidylcholine in pulmonary surfactant, thereby playing a pivotal role in respiratory
	physiology (By similarity). Involved in the regulation of lipid droplet number and size
	(PubMed:25491198). {ECO:0000250 UniProtKB:Q3TFD2, ECO:0000269 PubMed:18156367,
	ECO:0000269 PubMed:21498505, ECO:0000269 PubMed:25491198}.
Molecular Weight:	59.2 kDa
UniProt:	Q8NF37
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