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LCAT Protein (AA 25-438) (His tag)





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Quantity:	1 mg
Target:	LCAT
Protein Characteristics:	AA 25-438
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LCAT protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

Sequence:

FWLLNVLFPP HTTPKAELSN HTRPVILVPG CLGNRLEAKL DKPDVVNWMC YRKTEDFFTI WLDFNLFLPL GVDCWIDNTR IVYNHSSGRV SNAPGVQIRV PGFGKTESVE YVDDNKLAGY LHTLVQNLVN NGYVRDETVR AAPYDWRLAP HQQDEYYKKL AGLVEEMYAA YGKPVFLIGH SLGCLHVLHF LLRQPQSWKD HFIDGFISLG APWGGSIKAM RILASGDNQG IPILSNIKLK EEQRITTTSP WMLPAPHVWP EDHVFISTPN FNYTVQDFER FFTDLHFEEG WHMFLQSRDL LERLPAPGVE VYCLYGVGRP TPHTYIYDHN FPYKDPVAAL YEDGDDTVAT RSTELCGQWQ GRQSQPVHLL PMNETDHLNM VFSNKTLEHI NAILLGAYRT PKSPAASPSP PPPE

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany from design to production by highly experienced protein experts.
- Mouse Lcat Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.

• State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made to order protein and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein.

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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered. The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

- In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
- Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity: >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility: 0.22 µm filtered

Endotoxin Level: Protein is endotoxin free.

Grade: Crystallography grade

Target Details

Target: LCAT

Alternative Name: Lcat (LCAT Products)

Target Details

Background:	Central enzyme in the extracellular metabolism of plasma lipoproteins. Synthesized mainly in	
	the liver and secreted into plasma where it converts cholesterol and phosphatidylcholines	
	(lecithins) to cholesteryl esters and lysophosphatidylcholines on the surface of high and low	
	density lipoproteins (HDLs and LDLs) (PubMed:19065001). The cholesterol ester is then	
	transported back to the liver. Also produced in the brain by primary astrocytes, and esterifies	
	free cholesterol on nascent APOE-containing lipoproteins secreted from glia and influences	
	cerebral spinal fluid (CSF) APOE- and APOA1 levels (PubMed:19065001). Together with APOE	
	and the cholesterol transporter ABCA1, plays a key role in the maturation of glial-derived,	
	nascent lipoproteins (PubMed:19065001). Required for remodeling high-density lipoprotein	
	particles into their spherical forms (PubMed:19065001). Has a preference for plasma 16:0-18:2	
	or 18:0-18:2 phosphatidylcholines (PubMed:8820107). {ECO:0000250 UniProtKB:P04180,	
	ECO:0000269 PubMed:11809774, ECO:0000269 PubMed:11893779,	
	ECO:0000269 PubMed:15654758, ECO:0000269 PubMed:19065001,	
	ECO:0000269 PubMed:8820107}.	
Molecular Weight:	48.2 kDa Including tag.	
UniProt:	P16301	
Pathways:	Lipid Metabolism	
Application Details		
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies	
	as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee	
	though.	
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the	
	recombinant protein with the default tag will be insoluble our protein lab may suggest a higher	
	molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible	
	options with you in detail to assure that you receive your protein of interest.	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.	
Handling Advice:	Avoid repeated freeze-thaw cycles.	

Handling

Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

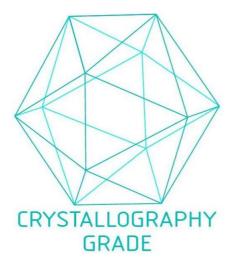


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process