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LPCAT3 Protein (AA 2-487) (rho-1D4 tag)





Overview

Quantity:	1 mg
Target:	LPCAT3
Protein Characteristics:	AA 2-487
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LPCAT3 protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:

ASTADGDMGE TLEQMRGLWP GVEDLSLNKL ATSLGASEQA LRLIFSIFLG YPLALFYRHY
LFYKDSYLIH LFHTFTGLSI AYFNFGHQFY HSLLCVVLQF LILRLMGRTV TAVITTLCFQ
MAYLLAGYYY TATGDYDIKW TMPHCVLTLK LIGLCIDYYD GGKDGNSLTS EQQKYAIRGV
PSLLEVAGFS YFYGAFLVGP QFSMNHYMKL VRGQLTDIPG KMPNSTIPAL KRLSLGLVYL
VGYTLLSPHI TDDYLLTEDY DNRPFWFRCM YMLIWGKFVL YKYVTCWLVT EGVCILSGLG
FNGFDENGTV RWDACANMKV WLFETTPRFN GTIASFNINT NAWVARYIFK RLKFLGNKEL
SQGLSLLFLA LWHGLHSGYL ICFQMEFLIV IVEKQVSSLI RDSPALSSLA SITALQPFYY
LVQQTIHWLF MGYSMTAFCL FTWDKWLKVY RSIYFLGHVF FLSLLFILPY IHKAMVPRKE KLKKRE
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 Lpcat3 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:

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

- 1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot.
- 2. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot.
- 3. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatograph. Eluate fractions are analyzed by SDS-PAGE and Western blot.

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot. Purity: 0.22 µm filtered Sterility: Endotoxin Level: Protein is endotoxin-free.

Grade: Crystallography grade

Target Details

Target:	LPCAT3
Alternative Name:	Lpcat3 (LPCAT3 Products)
Background:	Acyltransferase which mediates the conversion of lysophosphatidylcholine (1-acyl-sn-glycero-3 phosphocholine or LPC) into phosphatidylcholine (1,2-diacyl-sn-glycero-3-phosphocholine or PC) (LPCAT activity). To a lesser extent, also catalyzes the acylation of lysophosphatidylethanolamine (1-acyl-sn-glycero-3-phosphoethanolamine or LPE) into phosphatidylethanolamine (1,2-diacyl-sn-glycero-3-phosphoethanolamine or PE) (LPEAT activity), and the conversion of lysophosphatidylserine (1-acyl-2-hydroxy-sn-glycero-3-phospho-L-serine or LPS) into phosphatidylserine (1,2-diacyl-sn-glycero-3-phospho-L-serine or PS) (LPSAT activity). Favors polyunsaturated fatty acyl-CoAs as acyl donors compared to saturated fatty acyl-CoAs. Seems to be the major enzyme contributing to LPCAT activity in the liver. Lysophospholipid acyltransferases (LPLATs) catalyze the reacylation step of the phospholipid remodeling pathway also known as the Lands cycle. {ECO:0000269 PubMed:18287005}.
Molecular Weight:	57.2 kDa Including tag.
UniProt:	Q91V01
Application Details	
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.
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Handling

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