Datasheet for ABIN7564464

LPCAT2 Protein (AA 1-544) (His tag)

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Overview

Quantity:	1 mg
Target:	LPCAT2
Protein Characteristics:	AA 1-544
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LPCAT2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Lpcat2 Protein expressed in mammalian cells.
Sequence:	MNRCAEAAAV AATVPGSGVG DAGLRPPMVP RQASFFPPPV PNPFVQQTTI SASRRLQMFL LGIILLPVRA LLVGIILLLA WPFAVISTAC CPEKLTHPIS NWRRKITRPA LTFLARAMFF SMGFTVTVKG KVASPLEAPI FVVAPHSTFF DGIACVVAGL PSLVSRNENA QTPLVGRLLR ALQPVLVSRV DPDSRKNTIN EIKKRATSGG EWPQILVFPE GTCTNRSCLI TFKPGAFIPG VPVQPVLLRY PNKLDTVTWT WQGYTFLQLC VLTFCQLFTK VEIEFMPVQA PSEEEKNDPV LFASRIRNLM AEALEIPVTD HTYEDCRLMI SAGQLTLPME AGLVEFSKIS RKLKLDWDGI RKHLDEYASI ASSSKGGRIG IEEFAEYLKL PVSDVLRQLF ALFDRNNDGS IDFREYVIGL AVLCNPANTE EIIQVAFKLF DVDEDGYITE EEFCTILQAS LGVPDLNVSG LFREIAQRDS VSYEEFKSFA LKHPEYAKIF TTYLDLQTCH VFSLPEEVQT APSVASNKVS PESQEEGTSD KKVD **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.**

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: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • 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 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:	LPCAT2
Alternative Name:	Lpcat2 (LPCAT2 Products)
Background:	Lysophosphatidylcholine acyltransferase 2 (LPC acyltransferase 2) (LPCAT-2) (LysoPC acyltransferase 2) (EC 2.3.1.23) (1-acylglycerol-3-phosphate O-acyltransferase 11) (1-AGP acyltransferase 11) (1-AGPAT 11) (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 1),FUNCTION: Exhibits both acyltransferase and acetyltransferase activities (PubMed:17182612, PubMed:18156367, PubMed:18285344). Activity is calcium-dependent (PubMed:17182612). 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:17182612,

Target Details

	PubMed:18156367). 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). Involved in platelet-activating factor (PAF) biosynthesis by catalyzing the conversion of the PAF precursor, 1-O-alkyl-sn-glycero-3-phosphocholine (lyso-PAF) into 1-O-alkyl-2-acetyl-sn-glycero-3-phosphocholine (PAF) (PubMed:17182612, PubMed:18285344). Also converts lyso-PAF to 1-O-alkyl-2-acyl-sn-glycero-3-phosphocholine (PC), a major component of cell membranes and a PAF precursor (PubMed:17182612). Under resting conditions, acyltransferase activity is preferred (PubMed:17182612). Upon acute inflammatory stimulus, acetyltransferase activity is enhanced and PAF synthesis increases (PubMed:17182612). Involved in the regulation of lipid droplet number and size (By similarity). {ECO:0000250|UniProtKB:Q8NF37, ECO:0000269|PubMed:17182612, ECO:0000269|PubMed:18156367, ECO:0000269|PubMed:18285344}.
Molecular Weight:	60.3 kDa
UniProt:	Q8BYI6

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