

Datasheet for ABIN3136313 LPCAT2 Protein (AA 1-544) (Strep Tag)



Overview

Quantity:	250 µg
Target:	LPCAT2
Protein Characteristics:	AA 1-544
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This LPCAT2 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
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 Strep-Tag is based on experience s with the expression
	system, a different complexity of the protein could make another tag necessary. In case you

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	have a special request, please contact us.
Characteristics:	Key Benefits:
	 Made in Germany - from design to production - by highly experienced protein experts. Protein expressed with ALiCE® and purified in one-step affinity chromatography These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed). 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.
	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.
	Expression System:
	 ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications. During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!
	 Concentration: The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured against its specific reference buffer. We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.
Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

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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,
	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 1-0-
	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,
	EC0:0000269 PubMed:17182612, EC0:0000269 PubMed:18156367,
	ECO:0000269 PubMed:18285344}.
Molecular Weight:	60.3 kDa
UniProt:	Q8BYI6
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
	guarantee though.

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Application Details

Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from
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	During lysate production, the cell wall and other cellular components that are not required for
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	components needed for protein production (amino acids, cofactors, etc.) are added to produce
	something that functions like a cell, but without the constraints of a living system - all that's
	needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only

HandlingFormat:LiquidBuffer:The buffer composition is at the discretion of the manufacturer.
Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.Handling Advice:Avoid repeated freeze-thaw cycles.Storage:-80 °CStorage Comment:Store at -80°C.Expiry Date:12 months