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Datasheet for ABIN7557236

LCLAT1 Protein (AA 1-376) (His tag)

Overview

Quantity:	1 mg
Target:	LCLAT1
Protein Characteristics:	AA 1-376
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LCLAT1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Lclat1 Protein expressed in mammalian cells.
Sequence:	MVSWKGIYFI LFLFAGSFFG SIFMLGPILP LMFINLSWYR WISSRLVATW LTLPVALLET MFGVRVITG DAFVPGERSV IIMNHRTRVD WMFLWNCLMR YSYLRVEKIC LKSSLKSVPG FGWAMQVAAF IFIHRKWKDD KSHFEDMIDY FCAIHEPLQL LIFPEGTDLT ENNKARSNDF AEKNGLQKYE YVLHPRTTGF TFVVDRLREG KNLDAVHDIT VAYPYNIPQT EKHLLLGDFP KEIHFHVQRY PADSLPTSKE DLQLWCHRRW EEKEERLSF YQGEKNFHFT GQSTVPPCKS ELRVLVVKLL SIVYWALFCS AMCLLIYLYS PVRWYFIISI VFFVLQERIF GGLEIILAC YRFLHKHPHL NSKKNE 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.
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:

Product Details

- 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)
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Grade:	custom-made
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Target Details

Target:	LCLAT1
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Alternative Name:	Lclat1 (LCLAT1 Products)
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Background:	Lysocardiolipin acyltransferase 1 (EC 2.3.1.-) (1-acylglycerol-3-phosphate O-acyltransferase 8) (1-AGP acyltransferase 8) (1-AGPAT 8) (EC 2.3.1.51) (Acyl-CoA:lysocardiolipin acyltransferase 1),FUNCTION: Exhibits acyl-CoA:lysocardiolipin acyltransferase (ALCAT) activity, catalyzes the reacylation of lyso-cardiolipin to cardiolipin (CL), a key step in CL remodeling (PubMed:15152008). Recognizes both monolysocardiolipin and dilysocardiolipin as substrates with a preference for linoleoyl-CoA and oleoyl-CoA as acyl donors (PubMed:15152008). Also exhibits 1-acyl-sn-glycerol-3-phosphate acyltransferase activity (AGPAT) activity, converts 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). Possesses lysophosphatidylinositol acyltransferase (LPIAT) activity (PubMed:20668164). Possesses lysophosphatidylglycerol acyltransferase (LPGAT) activity (By similarity). Required for establishment of the hematopoietic and endothelial lineages (PubMed:17675553). {ECO:0000250 UniProtKB:Q6UWP7, ECO:0000269 PubMed:15152008, ECO:0000269 PubMed:17675553, ECO:0000269 PubMed:20668164}.
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Target Details

Molecular Weight: 44.4 kDa

UniProt: [Q3UN02](#)

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