Datasheet for ABIN7556832

LYPLA1 Protein (AA 1-230) (His tag)

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Overview

Quantity:	1 mg
Target:	LYPLA1
Protein Characteristics:	AA 1-230
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LYPLA1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Lypla1 Protein expressed in mammalian cells.
Sequence:	MCGNNMSAPM PAVVPAARKA TAAVIFLHGL GDTGHGWAEA FAGIKSPHIK YICPHAPVMP VTLNMNMAMP SWFDIVGLSP DSQEDESGIK QAAETVKALI DQEVKNGIPS NRIILGGFSQ GGALSLYTAL TTQQKLAGVT ALSCWLPLRA SFSQGPINSA NRDISVLQCH GDCDPLVPLM FGSLTVERLK ALINPANVTF KIYEGMMHSS CQQEMMDVKH FIDKLLPPID **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: • Made to order protein - from design to production - by highly experienced protein experts.

Product Details

	• 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:	LYPLA1
Alternative Name:	Lypla1 (LYPLA1 Products)
Background:	Acyl-protein thioesterase 1 (APT-1) (EC 3.1.2.-) (Lysophospholipase 1) (Lysophospholipase I) (LPL-I) (LysoPLA I) (Palmitoyl-protein hydrolase) (EC 3.1.2.22),FUNCTION: Acts as an acyl-protein thioesterase (By similarity). Hydrolyzes fatty acids from S-acylated cysteine residues in proteins such as trimeric G alpha proteins or HRAS (By similarity). Acts as a palmitoyl thioesterase that catalyzes depalmitoylation of proteins, such as ADRB2, KCNMA1 and SQSTM1 (By similarity). Acts as a negative regulator of autophagy by mediating palmitoylation of SQSTM1, decreasing affinity between SQSTM1 and ATG8 proteins and recruitment of ubiquitinated cargo proteins to autophagosomes (By similarity). Acts as a lysophospholipase and hydrolyzes lysophosphatidylcholine (lyso-PC) (By similarity). Also hydrolyzes lysophosphatidylethanolamine (lyso-PE), lysophosphatidylinositol (lyso-PI) and lysophosphatidylserine (lyso-PS) (PubMed:9139730). Has much higher thioesterase activity than lysophospholipase activity (By similarity). Contributes to the production of lysophosphatidic acid (LPA) during blood coagulation by recognizing and cleaving plasma phospholipids to generate lysophospholipids which in turn act as substrates for ENPP2 to produce LPA (By similarity). {ECO:0000250|UniProtKB:O75608,

Target Details

	ECO:0000250|UniProtKB:P70470, ECO:0000269|PubMed:9139730}.
Molecular Weight:	24.7 kDa
UniProt:	P97823

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

