Datasheet for ABIN7556166

LIPE Protein (AA 1-759) (His tag)

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Overview

Quantity:	1 mg
Target:	LIPE
Protein Characteristics:	AA 1-759
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LIPE protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Lipe Protein expressed in mammalian cells.
Sequence:	MDLRTMTQSL VTLAEDNMAF FSSQGPGETA RRLSNVFAGV REQALGLEPT LGQLLGVAHH FDLDTETPAN GYRSLVHTAR CCLAHLLHKS RYVASNRKSI FFRASHNLAE LEAYLAALTQ LRAMAYYAQR LLTINRPGVL FFEGDEGLTA DFLQEYVTLH KGCFYGRCLG FQFTPAIRPF LQTLSIGLVS FGEHYKRNET GLSVTASSLF TGGRFAIDPE LRGAEFERII QNLDVHFWKA FWNITEIEVL SSLANMASTT VRVSRLLSLP PEAFEMPLTS DPRLTVTISP PLAHTGPAPV LARLISYDLR EGQDSKVLNS LAKSEGPRLE LRPRPHQAPR SRALVVHIHG GGFVAQTSKS HEPYLKNWAQ ELGVPIFSID YSLAPEAPFP RALEECFFAY CWAVKHCDLL GSTGERICLA GDSAGGNLCI TVSLRAAAYG VRVPDGIMAA YPVTTLQSSA SPSRLLSLMD PLLPLSVLSK CVSAYSGTEA EDHFDSDQKA LGVMGLVQRD TSLFLRDLRL GASSWLNSFL ELSGRKPQKT TSPTAESVRP TESMRRSVSE AALAQPEGLL GTDTLKKLTI KDLSNSEPSD SPEMSQSMET LGPSTPSDVN FFLRPGNSQE EAEAKDEVRP MDGVPRVRAA FPEGFHPRRS SQGVLHMPLY TSPIVKNPFM SPLLAPDSML KTLPPVHLVA CALDPMLDDS VMFARRLRDL GQPVTLKVVE

Product Details

	DLPHGFLSLA ALCRETRQAT EFCVQRIRLI LTPPAAPLN **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. • 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:	LIPE
Alternative Name:	Lipe (LIPE Products)
Background:	Hormone-sensitive lipase (HSL) (EC 3.1.1.79) (Monoacylglycerol lipase LIPE) (EC 3.1.1.23) (Retinyl ester hydrolase) (REH),FUNCTION: Lipase with broad substrate specificity, catalyzing the hydrolysis of triacylglycerols (TAGs), diacylglycerols (DAGs), monoacylglycerols (MAGs), cholesteryl esters and retinyl esters (PubMed:15550674, PubMed:20625037, PubMed:21454566, PubMed:23066022, PubMed:23291629). Shows a preferential hydrolysis of DAGs over TAGs and MAGs and of the fatty acid (FA) esters at the sn-1 and sn-2 positions of the glycerol backbone in TAGs (By similarity). Preferentially hydrolyzes FA esters at the sn-3

Target Details

	position of the glycerol backbone in DAGs (PubMed:23066022). Catalyzes the hydrolysis of 2-arachidonoylglycerol, an endocannabinoid and of 2-acetyl monoalkylglycerol ether, the penultimate precursor of the pathway for de novo synthesis of platelet-activating factor (PubMed:20625037, PubMed:21454566). In adipose tissue and heart, it primarily hydrolyzes stored triglycerides to free fatty acids, while in steroidogenic tissues, it principally converts cholesteryl esters to free cholesterol for steroid hormone production (By similarity). {ECO:0000250|UniProtKB:P15304, ECO:0000250|UniProtKB:Q05469, ECO:0000269|PubMed:15550674, ECO:0000269|PubMed:20625037, ECO:0000269|PubMed:21454566, ECO:0000269|PubMed:23066022, ECO:0000269|PubMed:23291629}.
Molecular Weight:	83.3 kDa
UniProt:	P54310
Pathways:	AMPK Signaling, Monocarboxylic Acid Catabolic Process, Lipid Metabolism

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