

Datasheet for ABIN7554402  
**LIPE Protein (AA 1-1076) (His tag)**



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## Overview

Quantity:	1 mg
Target:	LIPE
Protein Characteristics:	AA 1-1076
Origin:	Human
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:	<p>MEPGSKSVSR SDWQPEPHQR PITPLEPGPE KTPIAQPESK TLQGSNTQQK PASNQRPLTQ QETPAQHDAE SQKEPRAQQK SASQEEFLAP QKPAPQQSPY IQRVLLTQQE AASQQGPGLG KESITQQEPA LRQRHVAQPG PGPGEPPPAQ QEAESTPAAQ AKPGAKREPS APTTESTSQET PEQSDKQTPP VQGAKSKQGS LTELGFLTCL QELSIQRSAL EWKALSEWVT DSESESDVGS SSDTPSPATM GGMVAQGVKL GFKGKSGYKV MSGYSGTSPH EKTSARNHRH YQDTASRLIH NMDLRTMTQS LVTLAEDNIA FFSSQGPGET AQRLSGVFAG VREQALGLEP ALGRLLGVAH LFDLDPETPA NGYRSLVHTA RCCLAHLLHK SRYVASNRRS IFFRTSHNLA ELEAYLAALT QLRALVYYAQ RLLVTNRPGV LFFEGDEGLT ADFLREYVTL HKGCFYGRCL GFQFTPAIRP FLQTISIGLV SFGEHYKRNE TGLSVAASSL FTSGRFAIDP ELRGAEFERI TQNLDVHFWK AFWNITEMEV LSSLANMASA TVRVSRLLSL PPEAFEMPLT ADPTLTVTIS PPLAHTGPGP VLVRLISYDL REGQDSEELS SLIKSNGQRS LELWPRPQQA PRSRSLIVHF HGGGFVAQTS RSHEPYLKSW AQELGAPIIS IDYSLAPEAP FPRALEECFF AYCWAIKHCA LLGSTGERIC</p>

## Product Details

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LAGDSAGGNL CFTVALRAAA YGVRVPDGIM AAYPATMLQP AASPSRLLSL MDPLLPLSVL  
SKCVSAYAGA KTEDHSNSDQ KALGMMGLVR RDTALLLRDF RLGASSWLNS FLELSGRKSQ  
KMSEPIAEPM RRSVSEAALA QPQGPLGTDS LKNLTLRDLS LRGNSSETSSD TPMSLSAET  
LSPSTPSDVN FLLPPEDAGE EAEAKNELSP MDRGLGVRAA FPEGFHPRRS SQGATQMPLY  
SSPIVKNPFM SPLPADSML KSLPPVHIVA CALDPMLDDS VMLARRLRNL GQPVTLRVVE  
DLPHGFLTLA ALCRETRQAA ELCVERIRLV LTPPAGAGPS GETGAAGVDG GCGGRH **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

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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

## Target Details

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the hydrolysis of triacylglycerols (TAGs), diacylglycerols (DAGs), monoacylglycerols (MAGs), cholesteryl esters and retinyl esters (PubMed:8812477, PubMed:15955102, PubMed:15716583, PubMed:19800417). Shows a preferential hydrolysis of DAGs over TAGs and MAGs and preferentially hydrolyzes the fatty acid (FA) esters at the sn-3 position of the glycerol backbone in DAGs (PubMed:19800417). Preferentially hydrolyzes FA esters at the sn-1 and sn-2 positions of the glycerol backbone in TAGs (By similarity). 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 (By similarity). 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:P54310, ECO:0000269|PubMed:15716583, ECO:0000269|PubMed:15955102, ECO:0000269|PubMed:19800417, ECO:0000269|PubMed:8812477}.

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Molecular Weight: 116.6 kDa

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UniProt: [Q05469](#)

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Pathways: [AMPK Signaling](#), [Monocarboxylic Acid Catabolic Process](#), [Lipid Metabolism](#)

## Application Details

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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.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months