

Datasheet for ABIN7562392

ELOVL3 Protein (AA 1-271) (His tag)



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Overview

Quantity:	1 mg
Target:	ELOVL3
Protein Characteristics:	AA 1-271
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ELOVL3 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Elovl3 Protein expressed in mammalian cells.
Sequence:	<p>MDTSMNFSRG LKMDLMQPYD FETFQDLRPF LEEYWVSSFL IVVVYLLIV VGQTYMRTRK</p> <p>SFSLQRPLIL WSFFLAIFSI LGTLRMWKFM ATVMFTVGLK QTVCFAYTD DAVVRFWSFL</p> <p>FLLSKVVELG DTAFIILRKR PLIFVHWYHH STVLLFTSFG YKNKVPSSGW FMTMNFVHVS</p> <p>VMYTYTMKA AKLKHPNLLP MVITSLQILQ MVLGTIFGIL NYIWRQEKGC HTTEHFFWS</p> <p>FMLYGTYFIL FAHFFHRAYL RPKGKVASKS Q Sequence without tag. The proposed</p> <p>Purification-Tag is based on experiences with the expression system, a different complexity</p> <p>of the protein could make another tag necessary. In case you have a special request, please</p> <p>contact us.</p>
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)
Grade:	custom-made

Target Details

Target:	ELOVL3
Alternative Name:	Elovl3 (ELOVL3 Products)
Background:	<p>Very long chain fatty acid elongase 3 (EC 2.3.1.199) (3-keto acyl-CoA synthase Elovl3) (CIN-2) (Cold-inducible glycoprotein of 30 kDa) (ELOVL fatty acid elongase 3) (ELOVL FA elongase 3) (Elongation of very long chain fatty acids protein 3) (Very long chain 3-ketoacyl-CoA synthase 3) (Very long chain 3-oxoacyl-CoA synthase 3),FUNCTION: Catalyzes the first and rate-limiting reaction of the four reactions that constitute the long-chain fatty acids elongation cycle. This endoplasmic reticulum-bound enzymatic process allows the addition of 2 carbons to the chain of long- and very long-chain fatty acids (VLCFAs) per cycle. Condensing enzyme that exhibits activity toward saturated and unsaturated acyl-CoA substrates with higher activity toward C18 acyl-CoAs, especially C18:0 acyl-CoAs. May participate in the production of saturated and monounsaturated VLCFAs of different chain lengths that are involved in multiple biological processes as precursors of membrane lipids and lipid mediators. Participates in the formation of certain VLCFA and triglycerides in certain cells of the hair follicles and the sebaceous glands, required for skin barrier function. Critical enzyme for lipid accumulation and metabolic activity in brown adipocytes during the early phase of the tissue recruitment. Plays a role in lipid</p>

Target Details

	storage and in resistance to diet-induced obesity. {ECO:0000255 HAMAP-Rule:MF_03203, ECO:0000269 PubMed:10791983, ECO:0000269 PubMed:14581464, ECO:0000269 PubMed:16326704, ECO:0000269 PubMed:20605947}.
Molecular Weight:	32.1 kDa
UniProt:	O35949

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