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Datasheet for ABIN7560931  
**ELOVL7 Protein (AA 1-281) (His tag)**

## Overview

Quantity:	1 mg
Target:	ELOVL7
Protein Characteristics:	AA 1-281
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ELOVL7 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant Elov7 Protein expressed in mammalian cells.
Sequence:	MAFSDLTSRT VRFYDNWIKD ADPRVEDYLL MSSPLPQTII LGLYVYFVTS LGPKLMENRK PFELKKAMIT YNFFIVLFSV YMCYEFVMSG WGTGYSFRCD IVDYSQSPRA MRMVHTCWLY YFSKFIELDL TIFFVLRKKN SQVTFLHV FH HTIMPWTWWF GVKFAAGGLG TFHAFLNTAV HVMYSYYGL CAMGPAYQKY LWWKKHLTSL QLVQFVLVTI HIGQIFFMED CNYQYPVFLY IIMS YGCIFL LLFLHFWYRA YTKGQRLPKT LENGNCKSKR H <b>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.</b>
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

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- 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.

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Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

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## Target Details

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Target:	ELOVL7
Alternative Name:	Elovl7 ( <a href="#">ELOVL7 Products</a> )
Background:	Very long chain fatty acid elongase 7 (EC 2.3.1.199) (3-keto acyl-CoA synthase Elovl7) (ELOVL fatty acid elongase 7) (ELOVL FA elongase 7) (Elongation of very long chain fatty acids protein 7) (Very long chain 3-ketoacyl-CoA synthase 7) (Very long chain 3-oxoacyl-CoA synthase 7),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 with higher activity toward C18 acyl-CoAs, especially C18:3(n-3) acyl-CoAs and C18:3(n-6)-CoAs. Also active toward C20:4-, C18:0-, C18:1-, C18:2- and C16:0-CoAs, and weakly toward C20:0-CoA. Little or no activity toward C22:0-, C24:0-, or C26:0-CoAs. May participate in the production of saturated and polyunsaturated VLCFAs of different chain lengths that are involved in multiple biological processes as precursors of membrane lipids and lipid mediators. {ECO:0000255 HAMAP-Rule:MF_03207}.
Molecular Weight:	33.5 kDa
UniProt:	<a href="#">Q9D2Y9</a>

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## 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

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## 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

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