10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ELOVL3 Blocking Peptide(C-term)

Synthetic peptide
Catalog # BP19871b

Specification

ELOVL3 Blocking Peptide(C-term) - Product Information

Primary Accession	Q9HB03
Other Accession	NP_689523.1

ELOVL3 Blocking Peptide(C-term) - Additional Information

Gene ID 83401

Other Names
Elongation of very long chain fatty acids protein 3, 3-keto acyl-CoA synthase ELOVL3, Cold-inducible glycoprotein of 30 kDa, ELOVL fatty acid elongase 3, ELOVL FA elongase 3, Very-long-chain 3-oxoacyl-CoA synthase 3, ELOVL3, CIG30

Target/Specificity
The synthetic peptide sequence is selected from aa 256-270 of HUMAN ELOVL3

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ELOVL3 Blocking Peptide(C-term) - Protein Information

Name ELOVL3 {ECO:0000255|HAMAP-Rule:MF_03203}

Synonyms CIG30

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.

Cellular Location
Endoplasmic reticulum membrane {ECO:0000255|HAMAP-Rule:MF_03203,

ECO:0000269|PubMed:20937905}; Multi- pass membrane protein {ECO:0000255|HAMAP-Rule:MF_03203}

Tissue Location
Testis..

ELOVL3 Blocking Peptide(C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

ELOVL3 Blocking Peptide(C-term) - Images

ELOVL3 Blocking Peptide(C-term) - Background

ELOVL3 plays a role in fatty acid chain elongation and formation of neutral lipids required for skin barrier function (Westerberg et al., 2004 [PubMed 14581464]).

ELOVL3 Blocking Peptide(C-term) - References

Kobayashi, T., et al. FEBS Lett. 581(17):3157-3163(2007)
Lamesch, P., et al. Genomics 89(3):307-315(2007)
Westerberg, R., et al. J. Biol. Chem. 279(7):5621-5629(2004)
Monne, M., et al. Eur. J. Biochem. 263(1):264-269(1999)
Lehner, R., et al. Prog. Lipid Res. 35(2):169-201(1996)