Long-Chain-Fatty-Acid--Coa Ligase 3 (ACSL3) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Long-chain-fatty-acid--CoA ligase 3 (Acsl3), Recombinant Protein
Full Product Name	Recombinant Mouse Long-chain-fatty-acid--CoA ligase 3 (Acsl3), partial
Product Gene Name	Acsl3 recombinant protein
Product Synonym Gene Name	Acsl3
Sequence	YFLCESKQE KPNQIKAKPV SSKPDSAYRS INSVDGLASV LYPGCDTLDK VFMYAKNKFK NKRLLGTREI LNEEDEIQPN GKIFKKVILG HYNWLSYEDV FIRALDFGNG LQMLGQKPKA NIAIFCETRA EWMIAAQACF MYNFQLVTLY ATLGGPAIVH GLNETEVTNI ITSKELLQTK LKDIVSLVPR LRHIITVDGK PPTWSEFPKG VIVHTMAAVQ ALGVKANVEK KAHSKPLPSD IAVIMYTSGS TGIPKGVMIS HSNIIASITG MARRIPRLGE EDVYIGYLPL AHVLELSAEL VCLSHGCRIG YSSPQTLADQ SSKIKKGSKG DTSVLKPTLM AAVPEIMDRI YKNVMNKVNE MSAFQRNLFI LAYNYKMEQI SKGCSTPLCD RFVFRNVRRL LGGNIRLLLC GGAPLSATTQ RFMNICFCCP VGQGYGLTES TGAGTITEVW DYNTGRVGAP LVCCEIKLKN WEEGGYFNTD KPHPRGEILI GGQNVTMGYY KNEAKTKTDF FEDENGQRWL CTGDIGEFDP DGCLKIIDRK KDLVKLQAGE YVSLGKVEAA LKNLPLIDNI CAYANSYHSY VIGFVVPNQK ELTELARTKG FKGTWEELCN SSEMENEVLK VLSEAAISAS LEKFEIPLKI RLSPDPWTPE TGLVTDAFKL KRKELKTHYQ ADIERMYGRK
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	80,492 Da
Sequence Positions	42-720
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q9CZW4
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Acsl3 recombinant protein	This protein is an isozyme of the long-chain fatty-acid-coenzyme A ligase family. Although differing in substrate specificity, subcellular localization, and tissue distribution, all isozymes of this family convert free long-chain fatty acids into fatty acyl-CoA esters, and thereby play a key role in lipid biosynthesis and fatty acid degradation. This isozyme is highly expressed in brain, and preferentially utilizes myristate, arachidonate, and eicosapentaenoate as substrates. The amino acid sequence of this isozyme is 92% identical to that of rat homolog. Two transcript variants encoding the same protein have been found for this gene.
Other Notes	Small volumes of Acsl3 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Acsl3 purchase	MBS1342981 is a recombinant protein targeting Acsl3. Also known as Recombinant Mouse Long-chain-fatty-acid--CoA ligase 3 (Acsl3), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Acsl3. It may not necessarily be applicable to this product.

NCBI GI #	209977074
NCBI GeneID	74205
NCBI Accession #	NP_001028778.2
UniProt Primary Accession #	Q9CZW4
UniProt Secondary Accession #	Q8K1J7
UniProt Related Accession #	Q9CZW4
GenBank Nucleotide #	NM_001033606.2
NCBI Official Full Name	long-chain-fatty-acid--CoA ligase 3 isoform a
NCBI Official Synonym Full Names	acyl-CoA synthetase long-chain family member 3
NCBI Official Symbol	Acsl3
NCBI Official Synonym Symbols	Acs3; Facl3; C85929; Pro2194; 2610510B12Rik
UniProt Protein Name	Long-chain-fatty-acid--CoA ligase 3
UniProt Synonym Protein Names	Long-chain acyl-CoA synthetase 3; LACS 3
Protein Family	Long-chain-fatty-acid--CoA ligase
UniProt Gene Name	Acsl3
UniProt Synonym Gene Names	Acs3; Facl3; LACS 3
NCBI Protein Information	long-chain-fatty-acid--CoA ligase 3
UniProt Comments for Acsl3	Acyl-CoA synthetases (ACSL) activates long-chain fatty acids for both synthesis of cellular lipids, and degradation via beta-oxidation. ACSL3 has mainly an anabolic role in energy metabolism (). Required for the incorporation of fatty acids into phosphatidylcholine, the major phospholipid located on the surface of VLDL (very low density lipoproteins) (). Mediates hepatic lipogenesis (). Preferentially uses myristate, laurate, arachidonate and eicosapentaenoate as substrates ().
Research Articles on Acsl3	**1.** ACSL3 expression is up-regulated in ob/ob mice and mice fed a high sucrose diet
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