

Recombinant Full Length Human ACSL3 Protein, GST-tagged

Cat. No. ACSL3-789HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ACSL3 full-length ORF (NP_004448.2, 1 a.a. - 720 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	720 amino acids
Description	The protein encoded by this gene 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. [provided by RefSeq, Jul 2008]
Molecular Mass	106.8 kDa
AA Sequence	MNNHVSSKPS TMKLKHTINP ILLYFIHFLI SLYTILTYIP FYFFSESQRQE KSNRIKAKPV NSKPDSAYRS VNSLDGLASV LYPGCDTLDK VFTYAKNKFK NKRL LGTREV LNEEDEVPQN GKIFKKVILG QYNWLSYEDV FVRAFNFNGNG LQMLGQKPKT NIAIFCETRA EWMIAAQACF MYNFQLVTLY ATLGGP AIVH

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ALNETEVTNI ITSKELLQTK LKDIVSLVPR LRHIITVDGK PPTWSEFPKG
 IIVHTMAAVE ALGAKASMEN QPHSKPLPSD IAVIMYTS GS TGLPKGVMIS
 HSNIAGITG MAERIPELGE EDVYIGYLPL AHVLELSAEL VCLSHGCRIG
 YSSPQTLADQ SSKI KKGSKG DTSMLKPTLM AAVPEIMDRI YKNVMNKVSE
 MSSFQRNLFI LAYNYKMEQI SKGRNTPLCD SFVFRKVRSL LGGNIRLLLC
 GGAPLSATTQ RFMNICFCCP VGQGYGLTES AGAGTISEVW DYNTGRVGAP
 LVCCEIKLKN WEEGGYFNTD KPHPRGEILI GGQSVTMGY KNEAKTKADF
 FEDENGQRWL CTGDIGEFEP DGCLKIIDRK KDLVKLQAGE YVSLGKVEAA
 LKNLPLVDNI CAYANSYHSY VIGFVVPNQK ELTELARKKG LKGTWEELCN
 SCEMENEVLK VLSEAAISAS LEKFEIPVKI RLSPEPWTP E TGLVTDAFKL
 KRKELKTHYQ ADIERMYGRK

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

ACSL3 acyl-CoA synthetase long-chain family member 3 [Homo sapiens]

Official Symbol

ACSL3

Synonyms

ACSL3; acyl-CoA synthetase long-chain family member 3; FACL3, fatty acid
 Coenzyme A ligase, long chain 3; long-chain-fatty-acid--CoA ligase 3; ACS3;
 PRO2194; LACS 3; lignoceroyl-CoA synthase; long-chain acyl-CoA synthetase 3;

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fatty-acid-Coenzyme A ligase, long-chain 3; FACL3

Gene ID 2181**mRNA Refseq** NM_004457**Protein Refseq** NP_004448**MIM** 602371**UniProt ID** O95573 Tel: 1-631-559-9269 1-516-512-3133 Email: info@creative-biomart.com  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA