

Recombinant Human ACSL3 Protein, GST-tagged

Cat. No. ACSL3-196H **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	Wheat Germ
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	MNNHVSSKPMKLTHTINPILLYFIHFLISLYTILTYIPFYFFSESQRQEKSNRIKAKPVN SKPDSAYRSVNSLDGLASVLYPGCDTLDKVFTYAKNKFKNRLLGTREVLNEEDE QPNGKIFKKVILGQYNWLSYEDVFVRAFNFNGNLQMLGQKPKTNIAIFCETRAEWMI AAQACFMYNFQLVTLYATLGGPAIVHALNETEVTNIITSKELLQTKLKDIVSLVPRLRHI ITVDGKPPTWSEFPKGIIVHTMAAVEALGAKASMENQPHSKPLPSDIAVIMYTSGSTG

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LPKGVMIHSNIIAGITGMAERIPELGEEDVYIGYLPLAHVLELSAELVCLSHGCRIGYS
 SPQTLADQSSKIKKGSKGDTSMLKPTLMAAVPEIMDRIYKNVMNKVSEMSSFQRNLF
 ILAYNYKMEQISKGRNTPLCDSFVFRKVRSLGNGNIRLLCGGAPLSATTQRFMNICF
 CCPVGQGYGLTESAGAGTISEVWDYNTGRVGAPLVCCEIKLKNWEEGGYFNTDKP
 HPRGEILIGGQSVTMGYKNEAKTKADFFEDENGQRWLCTGDIGEFEPDGCLKIIDR
 KKDLVKLQAGEYVSLGKVEAALKNLPLVDNICAYANSYHSYVIGFVVPNQKELTELAR
 KKGLKGTWEELCNSCEMENEVLKVLSEAAISASLEKFEIPVKIRLSPEPWTPETGLVT
 DAFKLKRKELKTHYQADIERMYGRK

Applications

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

Notes

Best use within three months from the date of receipt of this protein.

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

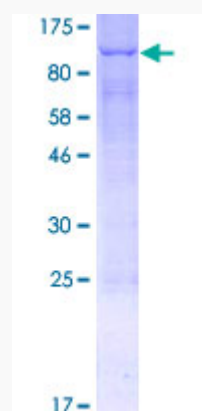
ACSL3; acyl-CoA synthetase long-chain family member 3; FACL3, fatty acid
 Coenzyme A ligase, long chain 3; long-chain-fatty-acid--CoA ligase 3; ACS3;
 PRO2194; LACS 3; lignoceroyl-CoA synthase; long-chain acyl-CoA synthetase 3;
 fatty-acid-Coenzyme A ligase, long-chain 3; FACL3;

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Gene ID	2181
mRNA Refseq	NM_004457
Protein Refseq	NP_004448
MIM	602371
UniProt ID	O95573



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