

Recombinant Full Length Human ACSL5 Protein, GST-tagged

Cat. No. ACSL5-804HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Human ACSL5 full-length ORF (NP_057318.2, 1 a.a. - 739 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	739 amino acids
Description	<p>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 uterus and spleen, and in trace amounts in normal brain, but has markedly increased levels in malignant gliomas. This gene functions in mediating fatty acid-induced glioma cell growth. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]</p>
Molecular Mass	108.7 kDa
AA Sequence	<p>MDALKPPCLW RNHERGKKDR DSCGRKNSEP GSPHSLEALR DAAPSQGLNF LLLFTKMLFI FNFLFSPLPT PALICILTFG AAIFLWLITR PQPVLPLLDL NNQSVGIEGG ARKGVSQKNN DLTSCCFSDA KTMYEVFQRG LAVSDNGPCL GYRKNQPYR WLSYKQVSDR AEYLGSCLLH KGYKSSPDQF VGIFAQNRPE</p>

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WIISELACYT YSMVAVPLYD TLGPEAIVHI VNKADIAMVI CDTPQKALVL
 IGNVEKGFTP SLKVIILMDP FDDDLKQRGE KSGIEILSLY DAENLGKEHF
 RKPVPPSPED LSVICFTSGT TGDPKGAMIT HQNIVSNAAA FLKCVEHAYE
 PTPDDVAISY LPLAHMFERI VQAVVYSCGA RVGFFQGDIR LLADDMKTLK
 PTLFPAVPRL LNRIYDKVQN EAKTPLKKFL LKLAVSSKFK ELQKGIIRHD
 SFWDKLIFAK IQDSLGGVR VIVTGAAPMS TSVMTFFRAA MGCQVYEAYG
 QTECTGGCTF TLPGDWTSGH VGVPLACNYV KLEDVADMNY FTVNNEGEVC
 IKGTNVFKGY LKDPEKTQEA LDSDGWLHTG DIGRWLPNGT LKIIDRKKNI
 FKLAQGEYIA PEKIENIYNR SQPVLQIFVH GESLRSSLVG VVVPD TDVLP
 SFAAKLGVKG SFEELCQNQV VREAILEDLQ KIGKESGLKT FEQVKAIFLH
 PEPFSIENGL LTPTLKAKRG ELSKYFRTQI DSLYEHIQD

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

ACSL5 acyl-CoA synthetase long-chain family member 5 [Homo sapiens]

Official Symbol

ACSL5

Synonyms

ACSL5; acyl-CoA synthetase long-chain family member 5; FACL5, fatty acid
 Coenzyme A ligase, long chain 5; long-chain-fatty-acid--CoA ligase 5; ACS2; ACS5;
 FACL5 for fatty acid coenzyme A ligase 5; fatty acid Coenzyme A ligase; long chain

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5; long chain acyl CoA synthetase 5; long chain fatty acid coenzyme A ligase 5; LACS 5; fatty acid coenzyme A ligase 5; long-chain acyl-CoA synthetase 5; long-chain fatty acid coenzyme A ligase 5; fatty-acid-Coenzyme A ligase, long-chain 5; FACL5

Gene ID [51703](#)

mRNA Refseq [NM_016234](#)

Protein Refseq [NP_057318](#)

MIM [605677](#)

UniProt ID [Q9ULC5](#)

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