

Recombinant Human ACSL5 Protein, GST-tagged

Cat. No. ACSL5-200H **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	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 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]
Molecular Mass	108.7 kDa
AA Sequence	MDALKPPCLWRNHERGKKDRDSCGRKNSEPGSPHSLEALRDAAPSQGLNLLLLFT KMLFIFNFLFSPLPTPALICILTFGAAIFLWLITRPQPVLPLLDLNNQSVGIEGGARKGV SQKNNDLTSCCFSDAKTMYEVFQRGLAVSDNGPCLGYRKPNQPYRWLSYKQVSD RAEYLGSCLLHKGYSKSPDQFVGIFAQNRPEWIISELACYTYSMVAVPLYDTLGPEAI VHIVNKADIAMVICDTPQKALVLIGNVEKGFTPSLKVILMDPFDDDLKQRGEKSGIEIL

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SLYDAENLGKEHFRKPVPPSPEDLSVICFTSGTTGDPKGAMITHQNVSNAAFLKCV
EHAYEPTPDDVAISYLPLAHMFERIVQAVVYSCGARVGGFFQGDIRLLADDMKTLKPTL
FPAVPRLLNRIYDKVQNEAKTPLKKFLLKLAVSSKFELQKGIIRHDSFWDKLIFAKIQ
DSLGGRRVRVIVTGAAPMSTSVMTFFRAAMGCQVYEAYGQTECTGGCTFTLPGDWT
SGHVGVPACNYVKLEDVADMNYFTVNNEGEVCIKGTNVFKGYLKDPEKTQEALDS
DGWLHTGDIGRWLPNGTLKIIDRKKNIFKLAQGEYIAPEKIENIYNRSQPVLQIFVHGE
SLRSSLVGVVVPDTDVLP SFAAKLGVKGSFEELCQNQVVREAILEDLQKIGKESGLK
TFEQVKAIFLHPEPFSIENGLLTPTLKA KRGE LSKYFRTQIDSLYEHIQD

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

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 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

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acid coenzyme A ligase 5; fatty-acid-Coenzyme A ligase, long-chain 5; FACL5;

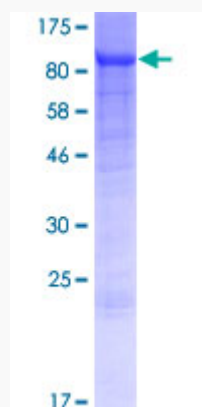
Gene ID 51703

mRNA Refseq NM_016234

Protein Refseq NP_057318

MIM 605677

UniProt ID Q9ULC5



12.5% SDS-PAGE Stained with Coomassie Blue.

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