

## Recombinant Human ACSL5 Protein, GST-tagged

**Cat. No.** ACSL5-200H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human ACSL5 full-length ORF ( NP_057318.2, 1 a.a. - 739 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>      | <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> |
| <b>Molecular Mass</b>   | 108.7 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>AA Sequence</b>      | MDALKPPCLWRNHERGKKDRDSCGRKNSEPGSPHSLEALRDAAPSQGLNLLLLFT<br>KMLFIFNFLFSPLPTPALICILTFGAAIFLWLITRPQPVLPLLDLNNQSVGIEGGARKGV<br>SQKNNDLTSCCFSDAKTMYEVFQRGLAVSDNGPCLGYRKPNQPYRWLSYKQVSD<br>RAEYLGSCLLHKGYSKSPDQFVGIFAQNRPEWIISELACYTYSMVAVPLYDTLGPEAI<br>VHIVNKADIAMVICDTPQKALVLIGNVEKGFTPSLKVILMDPFDDDLKQRGEKSGIEIL                                                                                                                                                                                                                                                                                                                                                                                                                              |

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 45-1 Ramsey Road, Shirley, NY 11967, USA

SLYDAENLGKEHFRKPVPPSPEDLSVICFTSGTTGDPKGAMITHQNIVSNAAFLKCV  
EHAYEPTPDDVAISYLPLAHMFERIVQAVVYSCGARVGFFQGDIRLLADDMKTLKPTL  
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;

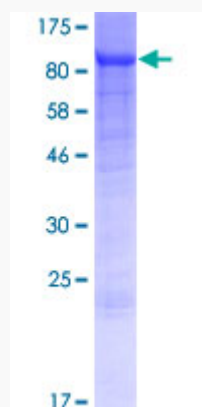
**Gene ID** 51703

**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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