

Recombinant Human ACSL5 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ACSL5-1593H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ACSL5 MS Standard C13 and N15-labeled recombinant protein (NP_976314) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	82.3 kDa
AA Sequence	MDALKPPCLWRNHERGKKDRDSCGRKNSEPGSPHSLEALRDAAPSQGLNLLLLFT KMLFIFNFLFSPLPTPALICILTFGAAIFLWLITRPQPVLPLLDLNNQSVGIEGGARKGV SQKNNDLTSCCFSDAKTMYEVFQRGLAVSDNGPCLGYRKPNQPYRWLSYKQVSD RAEYLGSCLLHKGYSKSPDQFVGIFAQNRPEWIISELACYTYSMVAVPLYDTLGPEAI VHIVNKADIAMVICDTPQKALVLIGNVEKGFTPSLKVILMDPFDDDLKQRGEKSGIEIL

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SLYDAENLGKEHFRKPVPPSPEDLSVICFTSGTTGDPKGAMITHQNIVSNAAFLKCV
EHAYEPTPDDVAISYLPLAHMFERIVQAVVYSCGARVGFFQGDIRLLADDMKTLKPTL
FPAVPRLLNRIYDKVQNEAKTPLKKFLLKLAVSSKFELQKGIIRHDSFWDKLIFAKIQ
DSLGGRRVRVIVTGAAPMSTSVMTFFRAAMGCQVYEAYGQTECTGGCTFTLPGDWT
SGHVGVPACNYVKLEDVADMNYFTVNNEGEVCIKGTNVFKGYLKDPEKTQEALDS
DGWLHTGDIGRWLPNGTLKIIDRKKNIFKLAQGEYIAPEKIENIYNRSQPVLQIFVHGE
SLRSSLVGVVVPDTDVLP SFAAKLGVKGSFEELCQNQVVREAILEDLQKIGKESGLK
TFEQVKAIFLHPEPFSIENGLLTPTLKAARGELSKYFRTQIDSLYEHIQDTRTRPLEQK
LISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [ACSL5 acyl-CoA synthetase long-chain family member 5 \[Homo sapiens \(human\) \]](#)

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

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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

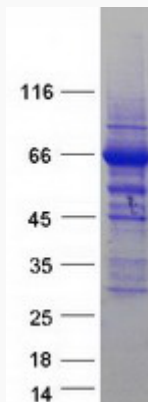
mRNA Refseq NM_203380

Protein Refseq NP_976314

MIM 605677

UniProt ID Q9ULC5

SDS-PAGE



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