

Recombinant Full Length Human ACSL5 Protein, C-Flag-tagged

Cat. No. ACSL5-1849HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human ACSL5 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	75.8 kDa
AA Sequence	MDALKPPCLWRNHERGKKDRDSCGRKNSEPGSPHSLEALRDAAPSQGLNFKLLFT KMLFIFNLFSPPLT PALICILTFGAAIFLWLITRPQPVLPLDLNNQSVGIEGGARKGV SQKNNDLTSCCFSDAKTMYEVFQRG LAVSDNGPCLGYRKPNQPYRWLSYKQVSD RAEYLGSCLLHKGKSSPDQFVGIFAQNRPEWIISELACYT YSMVAVPLYDTLGPEA

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IVHIVNKADIAMVICDTPQKALVLIGNVEKGFTPSLKVILMDPFDDDLKQRGE KSGIEI
 LSLYDAENLGKEHFRKPVPPSPEDLSVICFTSGTTGDPKGAMITHQNIVSNAAAFKLC
 VEHAYE PTPDDVAISYLPLAHMFERIVQAVVYSCGARVGGFFQGDIRLLADDMKTLKP
 TLFPAPVRLNRIYDKVQN EAKTPLKKFLLKLAVSSKFELQKGIIRHDSFWDKLIFAK
 IQDSLGGRRVRVIVTGAAPMSTSVMTFFRAA MGCQVYEAYGQTECTGGCTFTLPGD
 WTSGHVGVPACNYVKLEDVADMNYFTVNNEGEVCIKGTNVFKGY LKDPEKTQEA
 LDSDGWLHTGDIGRWLPNGTLKIIDRKKNIFKLAQGEYIAPEKIENIYNRSQPVLQIFV
 H GESLRSSLVGVVVPD TDVLP SFAAKLGVKGSFEELCQNQVVREAILEDLQKIGKES
 GLKTFEQVKAIFLH PEPFSIENGLLTPTLKAARGELSKYFRTQIDSLYEHIQD TRTRP
 LEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Transmembrane
Protein Pathways	Adipocytokine signaling pathway, Fatty acid metabolism, Metabolic pathways, PPAR signaling pathway
Full Length	Full L.

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GENE INFORMATION

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

Official Symbol ACSL5

Synonyms ACS2; ACS5; FACL5

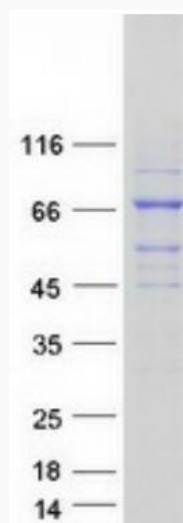
Gene ID 51703

mRNA Refseq NM_203379.2

Protein Refseq NP_976313.1

MIM 605677

UniProt ID Q9ULC5



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Coomassie blue staining of purified ACSL5 protein.

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