

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

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

## SPECIFICATION

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

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IVHIVNKADIAMVICDTPQKALVLIGNVEKGFTPSLKVIIIMDPFDDDLKQRGE KSGIEI  
 LSLYDAENLGKEHFRKPVPPSPEDLSVICFTSGTTGDPKGMITHQNIVSNAAFLKC  
 VEHAYE PTPDDVAISYLPLAHMFERIVQAVVYSCGARVGVFFQGDIRLLADDMKTLKP  
 TLFPAVPRLLNRIYDKVQN EAKTPLKKFLLKLAVSSKFELQKGIIRHDSFWDKLIFAK  
 IQDSLGGRRVIVTGAAPMSTSVMTFFRAA MGCQVYEAYGQTECTGGCTFTLPGD  
 WTSGHVGVPLACNYVKLEDVADMNYFTVNNEGEVCIKGTNVFKGY LKDPEKTQEA  
 LDSDGWLHTGDIGRWLPNGTLKIIDRKNIFKLAQGEYIAPEKIENIYNRSQPVLQIFV  
 H GESLRSSLVGVVVPD TDVLP SFAAKLGVKGSFEELCQNQVVREAILEDLQKIGKES  
 GLKTFEQVKAIFLH PEPFSIENGLLTPTLKAKRGELSKYFRTQIDSLYEHIQD TRTRP  
 LEQKLISEEDLAANDILDYKDDDDKV

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

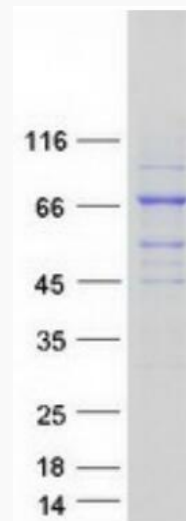
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## GENE INFORMATION

<b>Gene Name</b>	ACSL5 acyl-CoA synthetase long chain family member 5 [ Homo sapiens (human) ]
<b>Official Symbol</b>	ACSL5
<b>Synonyms</b>	ACS2; ACS5; FACL5
<b>Gene ID</b>	51703
<b>mRNA Refseq</b>	NM_203379.2
<b>Protein Refseq</b>	NP_976313.1
<b>MIM</b>	605677
<b>UniProt ID</b>	Q9ULC5



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Coomassie blue staining of purified ACSL5 protein.

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