

## Product datasheet for PH318932

### ACSL5 (NM\_203380) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	ACSL5 MS Standard C13 and N15-labeled recombinant protein (NP_976314)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC218932
Predicted MW:	82.3 kDa
Protein Sequence:	>RC218932 protein sequence Red=Cloning site Green=Tags(s)

MDALKPPCLWRNHERGKKDRDSCGRKNSEPGSPHSLEALRDAAPSQGLNLLLLFTKMLFIFNFLFSPLPT  
PALICILTFGAAIFLWLI TRPQVLP LLDLNNQSVGIEGGARKGVSQKNNDLTSCCFSDAKTMYEVFQRG  
LAVSDNGPCLGYRKNQPYRWLSYKQVSDRAEYLGSCLLHKGYKSSPDQFVGIFAQNRPEWIISELACYT  
YSMAVPLYDTLGPEAIVHIVNKADIAMVICDTPQKALVLIGNVEKGFTPSLKVIILMDPFDDDLKQRGE  
KSGIEILSLYDAENLGKEHFRKPVPPSPEDLSVICFTSGTTGDPKGAMITHQNIIVSNA AFLKCEVHAYE  
PTPDDVAISYLPLAHMFERIVQAVVYSCGARVGFQGDIRLLADDMKTLPKPTLFPVPRLLNRIYDKVQN  
EAKTPLKKFLLKLA VSSKFELQKGIIRHDSFWDKLIFAKIQDSL GGRVRVIVTGAAPMSTSVMTFFRAA  
MGCQVYEAYGQTECTGGCTFTLPGDWTSGHVGVPLACNYVKLEDVADMNYFTVNNEGEVCIKGTNVFKGY  
LKDPEKTQEALSDGWLHTGDI GRWLPNGTLKIIDRKKNI FKL AQGEYIAPEKIENIYNRSQPVLQIFVH  
GESLRSSLVGVVVPD TDVLP SFAAKLGVKGSFEELCQNQVVREAI LEDLQKIGKESGLKTFEQVKAIFLH  
PEPFSIENGLLTPTLKAKRGELSKYFRTQIDSLYEHIQD

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_976314</a>



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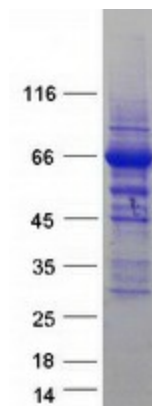
RefSeq Size:	3399
RefSeq ORF:	2220
Synonyms:	ACS2; ACS5; FACL5
Locus ID:	51703
UniProt ID:	<a href="#">Q9ULC5</a>
Cytogenetics:	10q25.2

**Summary:** 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]

**Protein Families:** Transmembrane

**Protein Pathways:** Adipocytokine signaling pathway, Fatty acid metabolism, Metabolic pathways, PPAR signaling pathway

### Product images:



Coomassie blue staining of purified ACSL5 protein (Cat# [TP318932]). The protein was produced from HEK293T cells transfected with ACSL5 cDNA clone (Cat# [RC218932]) using MegaTran 2.0 (Cat# [TT210002]).