

## Product datasheet for TP318932M

### ACSL5 (NM\_203380) Human Recombinant Protein

#### Product data:

|                                       |   |
|---------------------------------------|---|
| Product Type:                         | Recombinant Proteins  |
| Description:                          | Recombinant protein of human acyl-CoA synthetase long-chain family member 5 (ACSL5), transcript variant 3, 100 µg |
| Species:                              | Human   |
| Expression Host:                      | HEK293T   |
| Expression cDNA Clone or AA Sequence: | >RC218932 protein sequence<br>Red=Cloning site Green=Tags(s)  |

MDALKPPCLWRNHERGKKDRDSCGRKNSEPGSPHSLEALRDAAPSQGLNLLLLFTKMLFIFNFLFSPPLT  
PALICILTFGAAIFLWLITRPQPVLPLLDLNNQSVGIEGGARKGVSQKNNDLTSCCFSDAKTMYEVFQRG  
LAVSDNGPCLGYRKPNQPYRWLSYKQVSDRAEYLGSCLLHKGYKSSPDQFVGIFAQNRPEWIESELACYT  
YSMVAVPLYDTLGPEAIVHIVNKADIAMVICDTPQKALVLIGNVEKGFTPSLKVIILMDPFDDDLKQRGE  
KSGIEILSLYDAENLGKEHFRKPVPPSPEDLSVICFTSGTTGDPKGAMITHQNIVSNAAAFLKCVEHAYE  
PTPDDVAISYLPLAHMFERIVQAVVYSCGARVGGFFQGDIRLLADDMKTLPKPTLFPVPRLLNRIYDKVQN  
EAKTPLKKFLLKLA VSSKFELQKGIIRHDSFWDKLIFAKIQDSLGGRRVIVITGAAPMSTSVMTFFRAA  
MGCQVYEAYGQTECTGGCTFTLPGDWTS GHVGVPLACNYVKLEDVADMNYFTVNNEGEVCIKGTNVFKGY  
LKDPEKTQEALDSDGWLHTGDIGRWLPNGTLKIIDRKNIFKLAQGEYIAPEKIENIYNRSQPVLQIFVH  
GESLRSSLVGVVVPD TDVLP SFAAKLGVKGSFEELCQNQVVREAILEDLQKIGKESGLKTFEQVKAIFLH  
PEPFSIENGLLTPTL KAKRGELS KYFRTQIDSLYEHIQD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

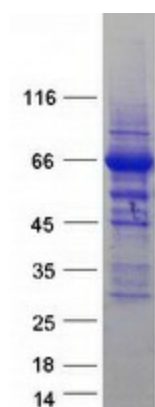
|                |  |
|----------------|--|
| Tag:           | C-Myc/DDK  |
| Predicted MW:  | 75.8 kDa   |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method   |
| Purity:        | > 80% as determined by SDS-PAGE and Coomassie blue staining  |
| Buffer:        | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol   |
| Preparation:   | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.                                     |
| Note:          | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |



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|                          |  |
|--------------------------|--|
| <b>Storage:</b>          | Store at -80°C.  |
| <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>RefSeq:</b>           | <a href="#">NP_976314</a>  |
| <b>Locus ID:</b>         | 51703  |
| <b>UniProt ID:</b>       | <a href="#">Q9ULC5</a>   |
| <b>RefSeq Size:</b>      | 3399   |
| <b>Cytogenetics:</b>     | 10q25.2  |
| <b>RefSeq ORF:</b>       | 2220   |
| <b>Synonyms:</b>         | ACS2; ACS5; FACL5  |
| <b>Summary:</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. [provided by RefSeq, Jul 2008] |
| <b>Protein Families:</b> | Transmembrane  |
| <b>Protein Pathways:</b> | 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]).