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

**Cat. No.** ACSL5-4026H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | ACSL5 MS Standard C13 and N15-labeled recombinant protein (NP_976313) 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** | MDALKPPCLWRNHERGKKDRDSCGRKNSEPGSPHSLEALRDAAPSQGLNFLLLFT KMLFIFNFLFSPLPTPALICILTFGAAIFLWLITRPQPVLPLLDLNNQSVGIEGGARKGV SQKNNDLTSCCFSDAKTMYEVFQRGLAVSDNGPCLGYRKPNQPYRWLSYKQVSD RAEYLGSCLLHKGYKSSPDQFVGIFAQNRPEWIISELACYTYSMVAVPLYDTLGPEAI VHIVNKADIAMVICDTPQKALVLIGNVEKGFTPSLKVIILMDPFDDDLKQRGEKSGIEIL |

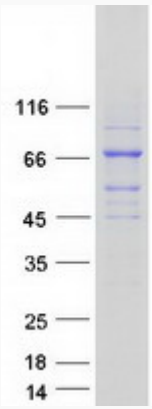
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| | SLYDAENLGKEHFRKPVPPSPEDLSVICFTSGTTGDPKGAMITHQNIVSNAAAFLKCV EHAYEPTPDDVAISYLPLAHMFERIVQAVVYSCGARVGFFQGDIRLLADDMKTLKPTL FPAVPRLLNRIYDKVQNEAKTPLKKFLLKLAVSSKFKELQKGIIRHDSFWDKLIFAKIQ DSLGGRVRVIVTGAAPMSTSVMTFFRAAMGCQVYEAYGQTECTGGCTFTLPGDWT SGHVGVPLACNYVKLEDVADMNYFTVNNEGEVCIKGTNVFKGYLKDPEKTQEALDS DGWLHTGDIGRWLPNGTLKIIDRKKNIFKLAQGEYIAPEKIENIYNRSQPVLQIFVHGE SLRSSLVGVVVPDTDVLPSFAAKLGVKGSFEELCQNQVVREAILEDLQKIGKESGLK TFEQVKAIFLHPEPFSIENGLLTPTLKAKRGELSKYFRTQIDSLYEHIQDTRTRPLEQK 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

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| **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_203379 |
| **Protein Refseq** | NP_976313 |
| **MIM** | 605677 |
| **UniProt ID** | Q9ULC5 |
| **SDS-PAGE** |  |



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