

# Recombinant Full Length Human ACSL3 Protein, C-Flag-tagged

**Cat. No.** ACSL3-1459HFL    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Full Length Human ACSL3 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 brain, and preferentially utilizes myristate, arachidonate, and eicosapentaenoate as substrates. The amino acid sequence of this isozyme is 92% identical to that of rat homolog. Two transcript variants encoding the same protein 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>   | 80.2 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>AA Sequence</b>      | MNNHVSSKPSMTMKLKHTINPILLYFIHFLISLYTILTYIPFYFFSESQRQEKSNRIKAKPVN<br>SKPDSAYRS VNSLDGLASVLYPGCDTLDKVFTYAKNKFKNKRLLGTTREVLNNEEDE<br>QPNGKIFKKVILGQYNWLSYEDV FVRAFNFNGNLQMLGQKPKTNIAIFCETRAEWMI<br>AAQACFMYNFQLVTLTYATLGGPAIVHALNETEVTNI ITSHELLQTKLKDIVSLVPRLRH                                                                                                                                                                                                                                                                                                                                                                                                                           |

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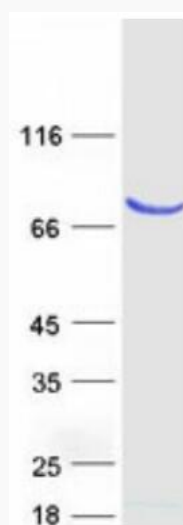
 45-1 Ramsey Road, Shirley, NY 11967, USA

IITVDGKPPTWSEFPKGIIVHTMAAVEALGAKASMENQPHSKPLPSD IAVIMYTSGST  
 GLPKGVMISHSNIAGITGMAERIPELGEEDVYIGYLPLAHVLELSAELVCLSHGCRIG  
 YSSPQTLADQSSKIKKGSKGDTSMKPTLMAAVPEIMDRIYKNVMNKVSEMSSFQR  
 NLFILAYNYKMEQI SKGRNTPLCDSFVRKVRSLGNGIRLLCGGAPLSATTQRFM  
 NICFCCPVGQGYGLTESAGAGTISEVW DYNTGRVGAPLVCCEIKLNWEEGGYFN  
 TDKPHPRGEILIGGQSVTMGYKNEAKTKADFFEDENGQRWL CTGDIGEFEPDGCL  
 KIIDRKKDLVKLQAGEYVSLGKVEAALKNLPLVDNICAYANSYHSYVIGFVVPNQK EL  
 TELARKKGLKGTWEELCNSCEMENEVLKVLSEAAISASLEKFEIPVKIRLSPEPWTP  
 TGLVTDAFKL  
 KRKELKTHYQADIERMYGRKTRTRPLEQKLISEEDLAANDILDYKDDDDKV

|                         |                                                                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <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.                                                                                                                                       |

## GENE INFORMATION

|                        |                                                                               |
|------------------------|-------------------------------------------------------------------------------|
| <b>Gene Name</b>       | ACSL3 acyl-CoA synthetase long chain family member 3 [ Homo sapiens (human) ] |
| <b>Official Symbol</b> | ACSL3                                                                         |
| <b>Synonyms</b>        | ACS3; FACL3; LACS3; LACS 3; PRO2194                                           |
| <b>Gene ID</b>         | 2181                                                                          |
| <b>mRNA Refseq</b>     | NM_004457.5                                                                   |
| <b>Protein Refseq</b>  | NP_004448.2                                                                   |
| <b>MIM</b>             | 602371                                                                        |
| <b>UniProt ID</b>      | O95573                                                                        |



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Coomassie blue staining of purified ACSL3 protein.

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