

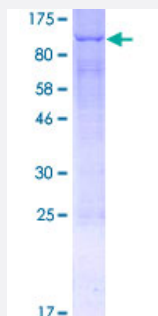
Full-Length

# ACSL3 (Human) Recombinant Protein (P01)

Catalog # H00002181-P01

Size 10 ug, 25 ug

## Applications



## Specification

### Product Description

Human ACSL3 full-length ORF ( NP\_004448.2, 1 a.a. - 720 a.a.) recombinant protein with GST-tag at N-terminal.

### Sequence

MNNHVSSKPSTMKLKHTINPILLYFIHFLISLYTILTYPFYFFSESREQESNRIKAKPVNSKPDSAYRS  
VNSLDGLASVLYPGCDTLKVFYAKNKFKNKRLTGTVLNEEDEVQPNGKIFKKVILGQYNWL  
SYEDVFVRAFNFNGNLQMLGQKPKTNIAIFCETRAEWMIAAQACFMYNFQLVTLATLGGPAMHA  
LNETEVTNITSKELLQTKLKDIVSLVPRLRHITVDGKPPTWSEFPKGIVHTMAAVEALGAKSMEN  
QPHSKPLPSDIAVIMYTSGSTGLPKGVMISHSNIAGITGMAERIPELGEEDVYIGYPLAHVLELSAE  
LVCLSHGCRIGYSSPQTLADQSSKIKKGSGKGDTSMLKPTLMAAVPEIMDRIYKNVMNKVSEMSSF  
QRNLFILAYNYKMEQISKGRNTPLCDSFVFRKVRSLGGINRLLCGGAPLSATTQRFMNICFCCPV  
GQGYGLTESAGAGTISEVWDYNTGRVGAPLVCCEIKLKNWEEGGYFNTDKPHPRGEILIGGQSVT  
MGYYKNEAKTKADFFEDENGQRWLCTGDIGEFEPDGCLKIIDRKKDLVKLQAGEYVSLGKVEAAL  
KNLPLVDNICAYANSYHSYVIGFVVPNQKELTELARKKGLKGTWEELCNSCEMENEVLKVLSEAAI  
SASLEKFEIPVKIRLSPEPWTPETGLVTDFAFLKRKELKTHYQADIERMYGRK

### Host

Wheat Germ (in vitro)

### Theoretical MW (kDa)

106.8

### Preparation Method

[in vitro wheat germ expression system](#)

### Purification

Glutathione Sepharose 4 Fast Flow

### Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

|                     |                                                                          |
|---------------------|--------------------------------------------------------------------------|
| Storage Buffer      | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer. |
| Storage Instruction | Store at -80°C. Aliquot to avoid repeated freezing and thawing.          |
| Note                | Best use within three months from the date of receipt of this protein.   |

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — ACSL3

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Entrez GeneID       | <a href="#">2181</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| GeneBank Accession# | <a href="#">NM_004457.3</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Protein Accession#  | <a href="#">NP_004448.2</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Gene Name           | ACSL3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Gene Alias          | ACS3, FACL3, PRO2194                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Gene Description    | acyl-CoA synthetase long-chain family member 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Omim ID             | <a href="#">602371</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Gene Ontology       | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Gene Summary        | <p>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. [provided by RefSeq]</p> |
| Other Designations  | OTTHUMP00000164212 fatty-acid-Coenzyme A ligase, long-chain 3 lignoceroyl-CoA synthase                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## Pathway

- [Adipocytokine signaling pathway](#)
- [Fatty acid metabolism](#)
- [Metabolic pathways](#)
- [PPAR signaling pathway](#)