

Recombinant Human ACSL3, His-tagged

Cat. No. ACSL3-26480TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 535-720 of Human ACSL3 with an N terminal His tag; MWt 25 kDa
Species	Human
Source	E.coli
ProteinLength	535-720 a.a.
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 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.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 91 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5

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Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	VTMGYYKNEAKTKADFFEDENGQRWLCTGDIGEFEPDGCL KIIDRKKDLVKLQAGE YVSLGKVEAALKNLPLVDNICA YANSYHSYVIGFVVPNQKELTELARKKGLKGTWEE LCN SCEMENEVLKVLSEAAISASLEKFEIPVKIRLSPEPWT PETGLVTD AFKLRKEL KTHYQADIERMYGRK
GENE INFORMATION	
Gene Name	ACSL3 acyl-CoA synthetase long-chain family member 3 [Homo sapiens]
Official Symbol	ACSL3
Synonyms	ACSL3; acyl-CoA synthetase long-chain family member 3; FACL3, fatty acid Coenzyme A ligase, long chain 3; long-chain-fatty-acid--CoA ligase 3; ACS3; PRO2194;
Gene ID	2181
mRNA Refseq	NM_004457
Protein Refseq	NP_004448
MIM	602371
Uniprot ID	O95573
Chromosome Location	2q34-q35
Pathway	Adipocytokine signaling pathway, organism-specific biosystem; Adipocytokine

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signaling pathway, conserved biosystem; Fatty Acid Beta Oxidation, organism-specific biosystem; Fatty Acid Biosynthesis, organism-specific biosystem; Fatty Acyl-CoA Biosynthesis, organism-specific biosystem;

Function

ATP binding; fatty-acyl-CoA synthase activity; ligase activity; long-chain fatty acid-CoA ligase activity; nucleotide binding;

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