

Recombinant Human ACSL1

Cat. No. ACSL1-26479TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment: PKPLKPPCDL SMQSVEVAGS GGARRSALLD SDEPLVYFYD DVTTLYEGFQ RGIQVSNNGP CLGSRKPDQP YEWLSYKQVA ELSECIGSAL IQKGFKTA of Human ACSL1 (amino acids 48-145) with N terminal proprietary tag, 36.41 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	98 amino acids
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.
Molecular Weight	36.410kDa inclusive of tags
Tissue specificity	Highly expressed in liver, heart, skeletal muscle, kidney and erythroid cells, and to a lesser extent in brain, lung, placenta and pancreas.
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	PKPLKPPCDLSMQSVEVAGSGGARRSALLDSDEPLVYFYDDVTTLTYEGFQRGIQVS NNGPCLGSRKPDQPYEWLSYKQVAELSECIGSALIQKGFKTA
Sequence Similarities	Belongs to the ATP-dependent AMP-binding enzyme family.

GENE INFORMATION

Gene Name	ACSL1 acyl-CoA synthetase long-chain family member 1 [Homo sapiens]
Official Symbol	ACSL1
Synonyms	ACSL1; acyl-CoA synthetase long-chain family member 1; FACL2, fatty acid Coenzyme A ligase, long chain 2; long-chain-fatty-acid--CoA ligase 1; ACS1; FACL1; LACS; LACS1; LACS2; lignoceroyl CoA synthase; long chain fatty acid coenzyme A ligase 1;
Gene ID	2180
mRNA Refseq	NM_001995
Protein Refseq	NP_001986
MIM	152425
Uniprot ID	P33121

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Chromosome Location	4q35
Pathway	Adipocytokine signaling pathway, organism-specific biosystem; Adipocytokine 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; ligase activity; long-chain fatty acid-CoA ligase activity; nucleotide binding;

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