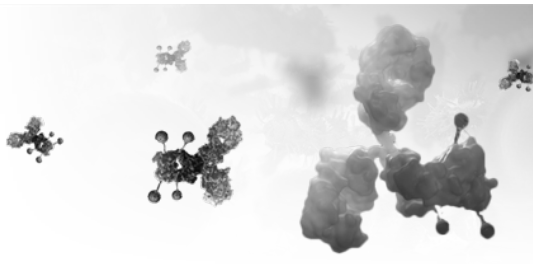

Human ACSL1 peptide (DAG-P0096)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen 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. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2013]
Specificity	Highly expressed in liver, heart, skeletal muscle, kidney and erythroid cells, and to a lesser extent in brain, lung, placenta and pancreas.
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the ATP-dependent AMP-binding enzyme family.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	ACSL1 acyl-CoA synthetase long-chain family member 1 [Homo sapiens (human)]
Official Symbol	ACSL1
Synonyms	ACSL1; acyl-CoA synthetase long-chain family member 1; ACS1; LACS; FACL1; FACL2; LACS1; LACS2; long-chain-fatty-acid--CoA ligase 1; LACS 1; LACS 2; acyl-CoA synthetase 1;

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	palmitoyl-CoA ligase 1; palmitoyl-CoA ligase 2; paltimoyl-CoA ligase 1; lignoceroyl-CoA synthase; long-chain acyl-CoA synthetase 1; long-chain acyl-CoA synthetase 2; long-chain fatty acid-CoA ligase 2; long-chain fatty-acid-coenzyme A ligase 1; fatty-acid-Coenzyme A ligase, long-chain 1; fatty-acid-Coenzyme A ligase, long-chain 2;
Entrez Gene ID	2180
mRNA Refseq	NM_001286708.1
Protein Refseq	NP_001273637.1
UniProt ID	A8K9T3
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; Fatty acid degradation, organism-specific biosystem; Fatty acid degradation, conserved biosystem; Fatty acid metabolism, organism-specific biosystem; Fatty acid metabolism, conserved biosystem; Fatty acid, triacylgly
Function	ATP binding; long-chain fatty acid-CoA ligase activity; long-chain fatty acid-CoA ligase activity;

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