Recombinant Human ACSL3 Protein, His-tagged

Cat. No. ACSL3-53H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ACSL3 Protein (Gln473-Lys720) with N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Gln473-Lys720
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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 31.5 kDa Accurate Molecular Mass: 32 kDa
Purity	> 90%

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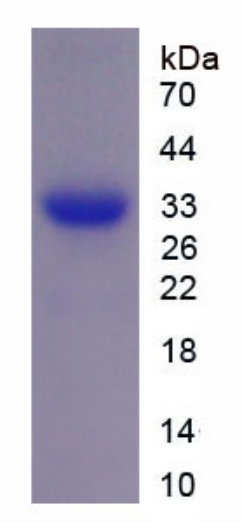
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	ACSL3 acyl-CoA synthetase long-chain family member 3 [Homo sapiens (human)]
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; LACS 3; lignoceroyl-CoA synthase; long-chain acyl-CoA synthetase 3; fatty-acid-Coenzyme A ligase, long-chain 3; FACL3
Gene ID	2181
mRNA Refseq	NM_004457
Protein Refseq	NP_004448

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MIM	602371
UniProt ID	O95573



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