Recombinant Human ACSL4 Protein, His-tagged

Cat. No. ACSL4-55H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ACSL4 Protein (Lys500-Lys711) with N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Lys500-Lys711
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 preferentially utilizes arachidonate as substrate. The absence of this enzyme may contribute to the cognitive disability or Alport syndrome. Alternative splicing of this gene generates multiple transcript variants.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 27.8 kDa Accurate Molecular Mass: 28 kDa
Purity	> 97%

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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	PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 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	ACSL4 acyl-CoA synthetase long-chain family member 4 [Homo sapiens (human)]
Official Symbol	ACSL4
Synonyms	ACSL4; acyl-CoA synthetase long-chain family member 4; FACL4, fatty acid Coenzyme A ligase, long chain 4, mental retardation, X linked 63, mental retardation, X linked 68, MRX63, MRX68; long-chain-fatty-acid--CoA ligase 4; long chain fatty acid Coenzyme A ligase 4; ACS4; LACS4; lignoceroyl CoA synthase; LACS 4; acyl-CoA synthetase 4; lignoceroyl-CoA synthase; long-chain acyl-CoA synthetase 4; long-chain fatty-acid-Coenzyme A ligase 4; fatty-acid-Coenzyme A ligase, long-chain 4; FACL4; MRX63; MRX68
Gene ID	2182
mRNA Refseq	NM_004458

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Protein Refseq	NP_004449
MIM	300157
UniProt ID	O60488

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