

## Recombinant Rat Acsl4 Protein, His-tagged

**Cat. No.** Acsl4-56R    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Rat Acsl4 Protein (Lys459-Lys670) with N-His tag was expressed in E. coli.
<b>Species</b>	Rat
<b>Source</b>	E.coli
<b>ProteinLength</b>	Lys459-Lys670
<b>Description</b>	Enables arachidonate-CoA ligase activity. Involved in several processes, including dendritic spine development; long-chain fatty-acyl-CoA biosynthetic process; and positive regulation of insulin secretion. Located in mitochondrial membrane; neuronal cell body; and peroxisome. Colocalizes with endoplasmic reticulum. Human ortholog(s) of this gene implicated in intellectual disability and non-syndromic X-linked intellectual disability 63. Orthologous to human ACSL4 (acyl-CoA synthetase long chain family member 4).
<b>Form</b>	Freeze-dried powder
<b>Molecular Mass</b>	Predicted Molecular Mass: 27.7 kDa Accurate Molecular Mass: 28 kDa
<b>Purity</b>	> 95%
<b>Applications</b>	Positive Control; Immunogen; SDS-PAGE; WB.

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<b>Stability</b>	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.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
<b>Storage Buffer</b>	PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.
<b>Reconstitution</b>	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Acsl4 acyl-CoA synthetase long-chain family member 4 [ Rattus norvegicus (Norway rat) ]</a>
<b>Official Symbol</b>	<a href="#">Acsl4</a>
<b>Synonyms</b>	ACSL4; acyl-CoA synthetase long-chain family member 4; long-chain-fatty-acid--CoA ligase 4; LACS 4; long-chain acyl-CoA synthetase 4; fatty acid-Coenzyme A ligase long chain 4; fatty acid Coenzyme A ligase, long chain 4; fatty acid-Coenzyme A ligase, long chain 4; Acs4; Facl4
<b>Gene ID</b>	<a href="#">113976</a>
<b>mRNA Refseq</b>	<a href="#">NM_053623</a>
<b>Protein Refseq</b>	<a href="#">NP_446075</a>
<b>UniProt ID</b>	<a href="#">O35547</a>

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