

Recombinant Rat Acsl4 Protein, His-tagged

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

SPECIFICATION

Product Overview	Recombinant Rat Acsl4 Protein (Lys459-Lys670) with N-His tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	Lys459-Lys670
Description	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).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 27.7 kDa Accurate Molecular Mass: 28 kDa
Purity	> 95%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.

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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 [Rattus norvegicus (Norway rat)]
Official Symbol	Acsl4
Synonyms	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; Fac14
Gene ID	113976
mRNA Refseq	NM_053623
Protein Refseq	NP_446075
UniProt ID	O35547

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