

Recombinant Mouse Acs1 Protein, His-tagged

Cat. No. Acs11-52M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Acs1 Protein (Ser424-Ile699) with N-His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Ser424-Ile699
Description	The protein encoded by this gene belongs to a family of acyl coenzyme A synthetase proteins, which convert long chain fatty acids to acyl CoA products via an ATP-dependent pathway. This enzyme is enriched in heart, liver and adipose tissue, where it functions in lipid synthesis and mitochondrial and peroxisomal beta-oxidation. In addition, it is expressed in monocytes and macrophages where it appears to have a functionally distinct role in mediating inflammatory and innate immune responses. A pseudogene of this gene is found on chromosome 5. Alternative splicing results in multiple transcript variants.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 34 kDa Accurate Molecular Mass: 34 kDa
Purity	> 90%

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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	Acsl1 acyl-CoA synthetase long-chain family member 1 [Mus musculus (house mouse)]
Official Symbol	Acsl1
Synonyms	ACSL1; acyl-CoA synthetase long-chain family member 1; long-chain-fatty-acid--CoA ligase 1; LACS 1; acetate-CoA ligase; acetyl-CoA synthetase; long-chain acyl-CoA synthetase 1; fatty acid Coenzyme A ligase, long chain 2; acetyl-Coenzyme A synthetase 1 (ADP forming); Acs; Acas; FACS; Acas1; FacI2
Gene ID	14081
mRNA Refseq	NM_007981
Protein Refseq	NP_032007

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UniProt ID

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