

Recombinant Mouse Acadl Protein, His&GST-tagged

Cat. No. Acadl-22M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Acadl Protein (Ile204-Ser430) with N-His&GST tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Ile204-Ser430
Description	This gene encodes a homotetrameric mitochondrial flavoprotein and is a member of the acyl-CoA dehydrogenase family. Members of this family catalyze the first step of fatty acid beta-oxidation, forming a C2-C3 trans-double bond in a FAD-dependent reaction. As beta-oxidation cycles through its four steps, each member of the acyl-CoA dehydrogenase family works at an optimum fatty acid chain-length. This enzyme has its optimum length between C12- and C16-acylCoA. In mice, deficiency of this gene can cause sudden death, cardiomyopathy as well as fasting and cold intolerance.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 55.7 kDa Accurate Molecular Mass: 56 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	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	Acadl acyl-Coenzyme A dehydrogenase, long-chain [Mus musculus (house mouse)]
Official Symbol	Acadl
Synonyms	ACADL; acyl-Coenzyme A dehydrogenase, long-chain; long-chain specific acyl-CoA dehydrogenase, mitochondrial; acetyl-Coenzyme A dehydrogenase, long-chain; LCAD; C79855; AA960361; AU018452
Gene ID	11363
mRNA Refseq	NM_007381
Protein Refseq	NP_031407
UniProt ID	P51174

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