

Recombinant Mouse Acadm Protein, MYC/DDK-tagged

Cat. No. Acadm-503M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of full-length mouse acyl-Coenzyme A dehydrogenase, medium chain (Acadm), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
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 C6- and C12-acylCoA. In mice, deficiency of this gene can cause neonatal mortality as well as fasting and cold intolerance. This gene has multiple, intronless pseudogenes.
Molecular Mass	46.4 kDa
Purity	>80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.

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Concentration	>50 µg/mL as determined by microplate BCA method
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Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
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GENE INFORMATION

Gene Name	Acadm acyl-Coenzyme A dehydrogenase, medium chain [Mus musculus (house mouse)]
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Official Symbol	Acadm
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Synonyms	Acadm; acyl-Coenzyme A dehydrogenase, medium chain; MCAD; AU018656; medium-chain specific acyl-CoA dehydrogenase, mitochondrial; EC 1.3.8.7
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Gene ID	11364
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mRNA Refseq	NM_007382
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Protein Refseq	NP_031408
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UniProt ID	P45952
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