

## Recombinant Mouse Acadm Protein, MYC/DDK-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Purified recombinant protein of full-length mouse acyl-Coenzyme A dehydrogenase, medium chain (Acadm), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>Description</b>	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.
<b>Molecular Mass</b>	46.4 kDa
<b>Purity</b>	>80% as determined by SDS-PAGE and Coomassie blue staining
<b>Stability</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>Storage</b>	Store at -80 centigrade after receiving vials.

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**Concentration** >50 µg/mL as determined by microplate BCA method

**Storage Buffer** 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

## GENE INFORMATION

**Gene Name** *Acadm* acyl-Coenzyme A dehydrogenase, medium chain [ *Mus musculus* (house mouse) ]

**Official Symbol** *Acadm*

**Synonyms** *Acadm*; acyl-Coenzyme A dehydrogenase, medium chain; MCAD; AU018656; medium-chain specific acyl-CoA dehydrogenase, mitochondrial; EC 1.3.8.7

**Gene ID** 11364

**mRNA Refseq** NM\_007382

**Protein Refseq** NP\_031408

**UniProt ID** P45952

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