

## Recombinant Human ACADM, His-tagged

Cat. No. ACADM-9268H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human ACADM protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	70-421a.a.
<b>Description</b>	This gene encodes the medium-chain specific (C4 to C12 straight chain) acyl-Coenzyme A dehydrogenase. The homotetramer enzyme catalyzes the initial step of the mitochondrial fatty acid beta-oxidation pathway. Defects in this gene cause medium-chain acyl-CoA dehydrogenase deficiency, a disease characterized by hepatic dysfunction, fasting hypoglycemia, and encephalopathy, which can result in infantile death. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
<b>Storage</b>	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
<b>Storage Buffer</b>	1M PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8. ) added with 300mM Imidazole and 0.7% Sarcosyl, 15% glycerol.

### GENE INFORMATION

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<b>Gene Name</b>	ACADM acyl-CoA dehydrogenase, C-4 to C-12 straight chain [ Homo sapiens ]
<b>Official Symbol</b>	ACADM
<b>Synonyms</b>	ACADM; acyl-CoA dehydrogenase, C-4 to C-12 straight chain; acyl Coenzyme A dehydrogenase, C 4 to C 12 straight chain; medium-chain specific acyl-CoA dehydrogenase, mitochondrial; ACAD1; MCAD; MCADH; acyl-Coenzyme A dehydrogenase, C-4 to C-12 straight chain;
<b>Gene ID</b>	34
<b>mRNA Refseq</b>	NM_000016
<b>Protein Refseq</b>	NP_000007
<b>MIM</b>	607008
<b>UniProt ID</b>	P11310
<b>Chromosome Location</b>	1p31
<b>Pathway</b>	Beta oxidation of decanoyl-CoA to octanoyl-CoA-CoA, organism-specific biosystem; Beta oxidation of octanoyl-CoA to hexanoyl-CoA, organism-specific biosystem; FOXA2 and FOXA3 transcription factor networks, organism-specific biosystem; Fatty Acid Beta Oxidation, organism-specific biosystem; Fatty acid metabolism, organism-specific biosystem; Fatty acid metabolism, conserved biosystem; Fatty acid, triacylglycerol, and ketone body metabolism, organism-specific biosystem;
<b>Function</b>	acryloyl-CoA reductase activity; acyl-CoA dehydrogenase activity; acyl-CoA dehydrogenase activity; acyl-CoA dehydrogenase activity; acyl-CoA dehydrogenase

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activity; flavin adenine dinucleotide binding; identical protein binding; medium-chain-acyl-CoA dehy

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