

Recombinant Human ACADM, His-tagged

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

SPECIFICATION

Product Overview	Recombinant Human ACADM protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	70-421a.a.
Description	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.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15% glycerol.

GENE INFORMATION

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Gene Name	ACADM acyl-CoA dehydrogenase, C-4 to C-12 straight chain [Homo sapiens]
Official Symbol	ACADM
Synonyms	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;
Gene ID	34
mRNA Refseq	NM_000016
Protein Refseq	NP_000007
MIM	607008
UniProt ID	P11310
Chromosome Location	1p31
Pathway	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;
Function	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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