

# Recombinant Full Length Human ACADM Protein, GST-tagged

Cat. No. ACADM-896HF Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human ACADM full-length ORF ( NP_000007.1, 1 a.a. - 421 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>Protein Length</b>	421 amino acids
<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. [provided by RefSeq, Jul 2008]
<b>Molecular Mass</b>	95.3 kDa
<b>AA Sequence</b>	MSGCGLFLRT TAAARACRGL VVSTANRRLR RTSPPVRAFA KELFLGKIKK KEVFPFPEVS QDELNEINQF LGPVEKFFTE EVDSRKIDQE GKIPDETLEK LKSLGLFGLQ VPEEYGGGLG SNMYSRLGE IISMDGSITV TLAHQAIQGL KGIIAGTEE QKAKYLPKLA SGEHIAAFCL TEPASGSDAA SIRSRATLSE DKKHILNGS KVVITNGGLA NIFTVFAKTE VVSDGGSVKD KITAFIVERD FGGVTNGKPE DKLGIRGSNT CEVHFENTKI PVENILGEVG DGFKVAMNIL

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NSGRFSMGSV VAGLLKRLIE MTAEYACTRK QFNKRLSEFG LIQEKFALMA  
 QKAYVMESMT YLTAGMLDQP GFPDCSIEAA MVKVSSEAA WQCVSEALQI  
 LGGLGYTRDY PYERILRDTR ILLIFEGTNE ILRMYIALTG LQHAGRILTT  
 RIHELKQAKV STVMDTVGRR LRDSLGRDVD LGLTGNHGTV HPSLADSANK  
 FEENTYCFGR TVETLLLRFG KTIMEEQLVL KRVANILINL YGMTAVLSRA  
 SRSIRIGLRN HDHEVLLANT FCVEAYLQNL FLSQLDKYA PENLDEQIKK  
 VSQQILEKRA YICAHPLDRT C

**Applications**  
 Enzyme-linked Immunoabsorbent Assay  
 Western Blot (Recombinant protein)  
 Antibody Production  
 Protein Array

**Storage** Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer** 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

**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](#)

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**Protein Refseq** NP\_000007

**MIM** 607008

**UniProt ID** P11310

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