

Recombinant Full Length Human ACADM Protein, GST-tagged

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

SPECIFICATION

Product Overview	Human ACADM full-length ORF (NP_000007.1, 1 a.a. - 421 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	421 amino acids
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. [provided by RefSeq, Jul 2008]
Molecular Mass	95.3 kDa
AA Sequence	MSGCGLFLRT TAAARACRGL VVSTANRRLL RTSPPVRAFA KELFLGKIKK KEVFPFPEVS QDELNEINQF LGPVEKFFTE EVDSRKIDQE GKIPDETLEK LKSLGLFGLQ VP E EYGG LGF SNTMYSRLGE IISMDGSITV TLA AHQAIGL KG ILAGTEE QKAKYLPKLA SGEHIAAFCL TEPASGSDAA SIRSRTLSE DKKH YILNGS K V WITNGGLA NIFTVFAKTE VVDS DGS VKD KITAFIVERD FGGVTNGKPE DKL GIRGSNT CEVHFENTKI PVENILGEVG DGFKVAMNIL

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NSGRFSMGSV VAGLLKRLIE MTAEYACTRK QFNKRLSEFG LIQEKFALMA
 QKAYVMESMT YLTAGMLDQP GFPDCSIEAA MVKVSSEAA WQCVSEALQI
 LGGLGYTRDY PYERILRDTR ILLIFEGTNE ILMYIALTG LQHAGRILTT
 RIHELKQAKV STVMDTVGRR LRDSLGRDVD LGLTGNHGVV HPSLADSANK
 FEENTYCFGR TVETLLLRFG KTIMEEQLVL KRVANILINL YGMTAVLSRA
 SRSIRIGLRN HDHEVLLANT FCVEAYLQNL FSLSQLDKYA 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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