

Recombinant Full Length Human ACADS Protein, GST-tagged

Cat. No. ACADS-897HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ACADS full-length ORF (AAH25963.1, 1 a.a. - 412 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	412 amino acids
Description	This gene encodes a tetrameric mitochondrial flavoprotein, which is a member of the acyl-CoA dehydrogenase family. This enzyme catalyzes the initial step of the mitochondrial fatty acid beta-oxidation pathway. Mutations in this gene have been associated with short-chain acyl-CoA dehydrogenase (SCAD) deficiency. Alternative splicing results in two variants which encode different isoforms. [provided by RefSeq, Oct 2014]
Molecular Mass	95.4 kDa
AA Sequence	MSGCGLFLRT TAAARACRGL VVSTANRRLL RTSPPVRAFA KELFLGKIKK KEVFPFPEVS QDELNEINQF LGPVEKFFTE EVDSRKIDQE GKIPDETLEK LKSLGLFGLQ VP E EYGG LGF SNTMYSRLGE IISMDGSITV TLAHQ AIGL KG ILAGTEE QKAKYLPKLA SGEHIAAFCL TEPASGSDAA SIRSRTLSE DKKH YILNGS KVVITNGGLA NIFTVFAKTE VVDS DGSVKD KITAFIVERD FGGVTNGKPE DKLGI RGSNT CEVHFENTKI PVENILGEVG DGFKVAMN IL NSGRFSMGSV VAGLLKRLIE MTA EYACTRK QFNKRLSEFG LIQEKFALMA

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QKAYVMESMT YLTAGMLDQP GFPDCSIEAA MVKVSSEAA WQCVSEALQI
 LGGLGYTRDY PYERILRDTR ILLIFEGTNE ILRMYIALTG LQHAGRILTT
 RIHELKQAKV STVMDTVGRR LRDSLGRITVD 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

ACADS acyl-CoA dehydrogenase, C-2 to C-3 short chain [Homo sapiens]

Official Symbol

ACADS

Synonyms

ACADS; acyl-CoA dehydrogenase, C-2 to C-3 short chain; acyl Coenzyme A dehydrogenase, C 2 to C 3 short chain; short-chain specific acyl-CoA dehydrogenase, mitochondrial; ACAD3; SCAD; butyryl-CoA dehydrogenase; unsaturated acyl-CoA reductase; short-chain acyl-CoA dehydrogenase; acyl-Coenzyme A dehydrogenase, C-2 to C-3 short chain; mitochondrial short-chain specific acyl-CoA dehydrogenase

Gene ID

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mRNA Refseq	NM_000017
Protein Refseq	NP_000008
MIM	606885
UniProt ID	P16219

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