

Recombinant Full Length Human ACADSB Protein, GST-tagged

Cat. No. ACADSB-910HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ACADSB full-length ORF (AAH13756.1, 1 a.a. - 432 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	432 amino acids
Description	Short/branched chain acyl-CoA dehydrogenase(ACADSB) is a member of the acyl-CoA dehydrogenase family of enzymes that catalyze the dehydrogenation of acyl-CoA derivatives in the metabolism of fatty acids or branch chained amino acids. Substrate specificity is the primary characteristic used to define members of this gene family. The ACADSB gene product has the greatest activity towards the short branched chain acyl-CoA derivative, (S)-2-methylbutyryl-CoA, but also reacts significantly with other 2-methyl branched chain substrates and with short straight chain acyl-CoAs. The cDNA encodes for a mitochondrial precursor protein which is cleaved upon mitochondrial import and predicted to yield a mature peptide of approximately 43.7-KDa. [provided by RefSeq, Jul 2008]
Molecular Mass	95.5 kDa
AA Sequence	MSGCGLFLRT TAAARACRGL VVSTANRRLL RTSPPVRAFA KELFLGKIKK KEVFPFPEVS QDELNEINQF LGPVEKFFTE EVDSRKIDQE GKIPDETEK

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LKSLGLFGLQ VP E EYGG LGF SNTMYSRLGE IISMDGSITV TLAHQAI GL
 KG ILAGTEE QKAKYLPKLA SGEHIAAFCL TEPASGSDAA SIRSRTLSE
 DKKHYILNGS KVVITNGGLA NIFTVFAKTE VVDS DGSVKD KITAFIVERD
 FGGVTNGKPE DKL GIRGSNT CEVHFENTKI PVENILGEVG DGFKVAMN IL
 NSGRFSMGSV VAGLLKRLIE MTA EYACTRK QFNKRLSEFG LIQEKFALMA
 QKAYVMESMT YLTAGMLDQP GFPDCSIEAA MVKVSSEAA WQCVSEALQI
 LGGLGYTRDY PYERILRDTR ILLIFEGTNE ILMYIALTG LQHAGRILTT
 RIHELKQAKV STVMDTVGRR LRDSLGR TVD LGLTGNHG VV 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

ACADSB acyl-CoA dehydrogenase, short/branched chain [Homo sapiens]

Official Symbol

ACADSB

Synonyms

ACADSB; acyl-CoA dehydrogenase, short/branched chain; ACAD7; SBCAD; 2-MEBCAD; short/branched chain specific acyl-CoA dehydrogenase, mitochondrial; 2-methylbutyryl-coenzyme A dehydrogenase; 2-methyl branched chain acyl-CoA

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dehydrogenase; 2 MEBCAD; 2 methyl branched chain acyl CoA dehydrogenase; 2 methylbutyryl CoA dehydrogenase; 2-methylbutyryl-CoA dehydrogenase; ACDSB_HUMAN; acyl CoA dehydrogenase, short/branched chain; OTTHUMP00000020685; OTTHUMP00000046795; Short/branched chain specific acyl-CoA dehydrogenase; acyl-Coenzyme A dehydrogenase, short/branched chain; 2-methylbutyryl-coenzyme A dehydrogenase; short/branched chain specific acyl-CoA dehydrogenase, mitochondrial; EC 1.3.99

Gene ID	36
mRNA Refseq	NM_001609
Protein Refseq	NP_001600
MIM	600301
UniProt ID	P45954