

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 | <p>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]</p> |
| Molecular Mass | 95.5 kDa |
| AA Sequence | MSGCGLFLRT TAAARACRGL VVSTANRRLL RTSPPVRAFA KELFLGKIKK KEVFPFPEVS QDELNEINQF LGPVEKFFTE EVDSRKIDQE GKIPDETLEK |

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LKSLGLFGLQ VPEEYGGGLGF SNTMYSRLGE IISMDGSITV TLAHQAIGL
 KGILAGTEE QKAKYLPKLA SGEHIAAFCL TEPASGSDAA SIRSRATLSE
 DKKHYILNGS KVVITNGGLA NIFTVFAKTE VVDSGDGSVKD KITAFIVERD
 FGGVTNGKPE DKLGIRGSNT CEVHFENTKI PVENILGEVG DGFKVAMNIL
 NSGRFSMGSV VAGLLKRLIE MTAEYACTRK QFNKRLSEFG LIQEKFALMA
 QKAYVMESMT YLTAGMLDQP GFPDCSIEAA MVKVSSEAA WQCVSEALQI
 LGGLGYTRDY PYERILRDTR ILLIFEGTNE ILMYIALTG 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

[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 |

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