

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

LKSLGLFGLQ VP E E Y G G L G F S N T M Y S R L G E I I S M D G S I T V T L A A H Q A I G L
 K G I I L A G T E E Q K A K Y L P K L A S G E H I A A F C L T E P A S G S D A A S I R S R A T L S E
 D K K H Y I L N G S K V W I T N G G L A N I F T V F A K T E V V D S D G S V K D K I T A F I V E R D
 F G G V T N G K P E D K L G I R G S N T C E V H F E N T K I P V E N I L G E V G D G F K V A M N I L
 N S G R F S M G S V V A G L L K R L I E M T A E Y A C T R K Q F N K R L S E F G L I Q E K F A L M A
 Q K A Y V M E S M T Y L T A G M L D Q P G F P D C S I E A A M V K V F S S E A A W Q C V S E A L Q I
 L G G L G Y T R D Y P Y E R I L R D T R I L L I F E G T N E I L R M Y I A L T G L Q H A G R I L T T
 R I H E L K Q A K V S T V M D T V G R R L R D S L G R T V D L G L T G N H G V V H P S L A D S A N K
 F E E N T Y C F G R T V E T L L L R F G K T I M E E Q L V L K R V A N I L I N L Y G M T A V L S R A
 S R S I R I G L R N H D H E V L L A N T F C V E A Y L Q N L F S L S Q L D K Y A P E N L D E Q I K K
 V S Q Q I L E K R A Y I C A H P L D R T 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