

Recombinant Human ACADSB Protein, GST-Tagged

Cat. No. ACADSB-137H **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	Wheat Germ
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	<p>MSGCGLFLRRTTAAARACRGLVVSTANRLLRTSPPVRAFAKELFLGKIKKKEVFPPF EVSQDELNEINQFLGPVEKFFTEEVDNRKIDQEGKIPDETLEKLSLGLFGLQVPEEY GGLGFSNTMYSRLGEIISMDGSITVTLAAHQAIKLGKILAGTTEEQKAKYLPKLASGEH IAAFCLTEPASGSDAASIRSRTLSEDKKHYILNGSKVWITNGGLANIFTVFAKTEVVD</p>

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SDGSVKDKITAFIVERDFGGVTNGKPEDKLGIRGSNTCEVHFENTKIPVENILGEVGD
 GFKVAMNILNSGRFMSGSVVAGLLKRLIEMTAEYACTRKQFNKRLSEFGLIQEKFAL
 MAQKAYVMESMTYLTAGMLDQPGFPDCSIEAAMVKVFSSEAAWQCVSEALQILGGL
 GYTRDYPYERILRDTRILLIFEGTNEILRMYIALTGLQHAGRILTTRIHLEKQAKVSTVM
 DTVGRRLRDSLGRTVDLGLTGNHGVVHPSLADSANKFEENTYCFGRTVETLLLRFG
 KTIMEEQLVLKRVANILINLYGMTAVLSRASRSIRIGLRNHDHEVLLANTFCVEAYLQN
 LFSLSQLDKYAPENLDEQIKKVSQQILEKRAYICAHPLDRTC

Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
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Notes	Best use within three months from the date of receipt of this protein.
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Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
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Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
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GENE INFORMATION

Gene Name	ACADSB acyl-CoA dehydrogenase, short/branched chain [Homo sapiens]
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Official Symbol	ACADSB
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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 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;
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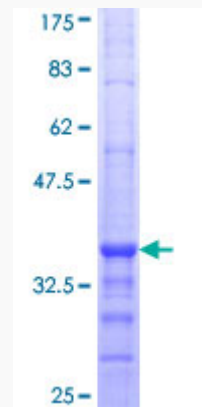
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OTTHUMP00000020685; OTTHUMP00000046795; Short/branched chain specific acyl-CoA dehydrogenase; acyl-Coenzyme A dehydrogenase, short/branched chain; 2-methylbutyryl-coenzyme A dehydrogenase; short/branched chain specific acyl-CoA dehydrogenase, mitochondrial; EC 1.3.99

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



12.5% SDS-PAGE Stained with Coomassie Blue.

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