

Recombinant Human Acyl-CoA Dehydrogenase, Short/Branched Chain, His-tagged

Cat. No. ACADSB-2516H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human ACADSB protein, fused to His-tag at N-terminus, was expressed in <i>E. coli</i> and purified by using conventional chromatography techniques.
Species	Human
Source	<i>E. coli</i>
ProteinLength	34-432aa
Description	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. ACADSB catalyzes the degradation of L-isoleucine and has the highest affinity for (s)-2-methylbutyryl-CoA, isobutyryl-CoA and 2-methylhexanoyl-CoA as substrates.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol, 1mM DTT.
Molecular Mass	46.4 kDa (424aa)
AA Sequence	MGSSHHHHHH SGLVPRGSH MGSHMKSSQS EALLNITNNG IHFAPLQTFT DEEMMIKSSV KKFAQEQIAP LVSTMDENSK MEKSVIQGLF QQGLMGIEVD PEYGGTGASF LSTLVIEEL AKVDASVAVF CEIQNTLINT LIRKHGTEEQ KATYLPQLTT EKVGSFCLSE AGAGSDSFAL KTRADKEGDY YVLNGSKMWI

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SSAEHAGLFL VMANVDPTIG YKGITSFLVD RDTPGLHIGHK PENKLGLRAS
STCPLTFENV KVPEANILGQ IGHGYKYAIG SLNEGRIGIA AQMLGLAQGC
FDYTIPYIKE RIQFGKRLFD FQGLQHVAH VATQLEAARL LTYNAARLLE
AGKPFIKEAS MAKYYASEIA GQTTSKCIEW MGGVGYTKDY PVEKYFRDAK
IGTIYEGASN IQLNTIAKHI DAEY

Purity >90% by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Concentration 0.5 mg/ml (determined by Bradford assay)

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 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

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Gene ID	36
mRNA Refseq	NM_001609
Protein Refseq	NP_001600
MIM	600301
UniProt ID	P45954
Chromosome Location	10q26.13
Pathway	Branched-chain amino acid catabolism, organism-specific biosystem; Fatty acid metabolism, organism-specific biosystem; Fatty acid metabolism, conserved biosystem; Metabolism, organism-specific biosystem; Metabolism of amino acids and derivatives, organism-specific biosystem; Valine, leucine and isoleucine degradation, organism-specific biosystem; Valine, leucine and isoleucine degradation, conserved biosystem;
Function	acyl-CoA dehydrogenase activity; electron carrier activity; flavin adenine dinucleotide binding; short-branched-chain-acyl-CoA dehydrogenase activity

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