

Recombinant Human ACADS, His-tagged

Cat. No. ACADS-9269H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human ACADS protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-412a.a.
Description	This gene encodes a a tetrameric mitochondrial flavoprotein, which is a member of the acyl-CoA dehydrogenase family. This enzyme catalyzes the initial step of the mitochondrial fatty acid beta-oxidation pathway. Mutations in this gene have been associated with Short Chain Acyl-CoA Dehydrogenase Deficiency.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15%glycerol.

GENE INFORMATION

Gene Name	ACADS acyl-CoA dehydrogenase, C-2 to C-3 short chain [Homo sapiens]
Official Symbol	ACADS

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Synonyms	ACADS; acyl-CoA dehydrogenase, C-2 to C-3 short chain; acyl Coenzyme A dehydrogenase, C 2 to C 3 short chain; short-chain specific acyl-CoA dehydrogenase, mitochondrial; ACAD3; SCAD; butyryl-CoA dehydrogenase; unsaturated acyl-CoA reductase; short-chain acyl-CoA dehydrogenase; acyl-Coenzyme A dehydrogenase, C-2 to C-3 short chain; mitochondrial short-chain specific acyl-CoA dehydrogenase;
Gene ID	35
mRNA Refseq	NM_000017
Protein Refseq	NP_000008
MIM	606885
UniProt ID	P16219
Chromosome Location	12q24.31
Pathway	Beta oxidation of butanoyl-CoA to acetyl-CoA, organism-specific biosystem; Beta oxidation of hexanoyl-CoA to butanoyl-CoA, organism-specific biosystem; Butanoate metabolism, organism-specific biosystem; Butanoate metabolism, conserved biosystem; Fatty Acid Beta Oxidation, organism-specific biosystem; Fatty acid metabolism, organism-specific biosystem; Fatty acid metabolism, conserved biosystem;
Function	acyl-CoA dehydrogenase activity; butyryl-CoA dehydrogenase activity; fatty-acyl-CoA binding; flavin adenine dinucleotide binding;