Recombinant Mouse Acads Protein, MYC/DDK-tagged

Cat. No. Acads-505M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of full-length mouse acyl-Coenzyme A dehydrogenase, short chain (Acads), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	This gene encodes a homotetrameric mitochondrial flavoprotein and is a member of the acyl-CoA dehydrogenase family. Members of this family catalyze the first step of fatty acid beta-oxidation, forming a C2-C3 trans-double bond in a FAD-dependent reaction. As beta-oxidation cycles through its four steps, each member of the Acyl-CoA dehydrogenase family works at an optimum fatty acid chain-length. This enzyme has its optimum at C(four)-CoA. In mice, deficiency of this gene has been linked to cold sensitivity and increased high-density lipoprotein levels.
Molecular Mass	44.9 kDa
Purity	>80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 μg/mL as determined by microplate BCA method

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

Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Acads acyl-Coenzyme A dehydrogenase, short chain [Mus musculus (house mouse)]
Official Symbol	Acads
Synonyms	Acads; acyl-Coenzyme A dehydrogenase, short chain; Bcd1; SCAD; Bcd-1; Hdlq8; AI196007; short-chain specific acyl-CoA dehydrogenase, mitochondrial; butyryl-CoA dehydrogenase; EC 1.3.8.1
Gene ID	11409
mRNA Refseq	NM_007383
Protein Refseq	NP_031409
UniProt ID	Q07417

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