

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	<p>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.</p>
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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