

Recombinant Mouse Acadvl Protein, MYC/DDK-tagged

Cat. No. Acadvl-504M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of full-length mouse acyl-Coenzyme A dehydrogenase, very long chain (Acadvl), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	This gene encodes a homodimeric 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 length between C16- and C20-acylCoA and localizes to the inner mitochondrial membrane (unlike related acyl-CoA dehydrogenases). In mice, deficiency of this gene can cause ventricular arrhythmias as well as fasting and cold intolerance.
Molecular Mass	70.9 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.

 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

Concentration >50 µg/mL as determined by microplate BCA method

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

GENE INFORMATION

Gene Name [Acadvl acyl-Coenzyme A dehydrogenase, very long chain \[Mus musculus \(house mouse\) \]](#)

Official Symbol [Acadvl](#)

Synonyms [Acadvl](#); acyl-Coenzyme A dehydrogenase, very long chain; [vlcad](#); very long-chain specific acyl-CoA dehydrogenase, mitochondrial; [MVLCAD](#); EC 1.3.8.9

Gene ID [11370](#)

mRNA Refseq [NM_017366](#)

Protein Refseq [NP_059062](#)

UniProt ID [P50544](#)

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