

Recombinant Human ACADVL, His-tagged

Cat. No. ACADVL-785H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ACADVL protein, fused to His-tag at N-terminus, was expressed in <i>E. coli</i> and purified by using conventional chromatography techniques. MW = 68.5 kDa (636aa).
Species	Human
Source	<i>E. coli</i>
Description	ACADVL, also known as VLCAD, LCACD or ACAD6, is an inner mitochondrial membrane protein that belongs to the family of acyl-CoA dehydrogenases. This protein is involved in lipid metabolism and has catalytic activity toward esters of long chain and very long chain fatty acids such as palmitoyl-CoA and stearoyl-CoA, and functions in the first step of the fatty acid β -oxidation pathway. A deficiency in this gene product reduces myocardial fatty acid beta-oxidation and is associated with cardiomyopathy.
Sequences Of Amino Acids	MGSSHHHHHH SGLVPRGSH MAGGAAQLAL DKSDSHPSDA LTRKKPAKAE SKSFAVGMFK GQLTTDQVFP YPSVLNEEQT QFLKELVEPV SRFFEEVNDP AKNDALEMVE ETTWQGLKEL GAFGLQVPSE LGGVGLCNTQ YARLVEIVGM HDLGVGITLG AHQSIGFKGI LLFGTKAQKE KYLPKLASGE TVAAFCLETP SSGSDAASIR TSAVPSPCGK YYTLNGSKLW ISNGGLADIF TVFAKTPVTD PATGAVKEKI TAFVVERGFG GITHGPPEKK MGIKASNTAE VFFDGVVRVPS ENVLGEVGSG FKVAMHILNN GRFGMAAALA GTMRGIIAKA VDHA TNRTQF GEKIHNFGLI QEKLARMVML QYVTESMAYM VSANMDQGAT DFQIEAAISK

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IFGSEAAWKV TDECIQIMGG MGFMKEPGVE RVLRLDRIFR IFEGTNDILR
 LFVALQGCMMD KKGELSGGLGS ALKNPFGNAG LLLGEAGKQL RRRAGLGSGL
 SLSGLVHPEL SRSGELAVRA LEQFATVVEA KLIKHKKGIV NEQFLLQRLA
 DGAIDLYAMV VVLSRASRSL SEGHTAQHE KMLCDTWCIE AAARIREGMA
 ALQSDPWQQE LYRNFKSISK ALVERGGVVT SNPLGF

Purity	> 95% by SDS – PAGE.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 1mM DTT, 1mM EDTA, 0.1M NaCl.
Concentration	0.5 mg/ml (determined by Bradford assay).
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.

GENE INFORMATION

Gene Name	ACADVL acyl-CoA dehydrogenase, very long chain [Homo sapiens]
Synonyms	ACADVL; acyl-CoA dehydrogenase, very long chain; ACAD6; LCACD; VLCAD; very long-chain specific acyl-CoA dehydrogenase, mitochondrial; EC 1.3.99.-; acyl-Coenzyme A dehydrogenase, very long chain
Gene ID	37
mRNA Refseq	NM_000018
Protein Refseq	NP_000009
MIM	609575

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UniProt ID	P49748
Chromosome Location	17p13.1
Pathway	Fatty acid metabolism; Metabolic pathways
Function	FAD binding; long-chain-acyl-CoA dehydrogenase activity

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