

Product information



ACADVL, 41-655 aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP0675

Full name: Very long-chain specific acyl-CoA dehydrogenase, mitochondrial **NCBI Accession No.:** NP_000009

Synonyms: ACAD6, LCACD, VLCAD

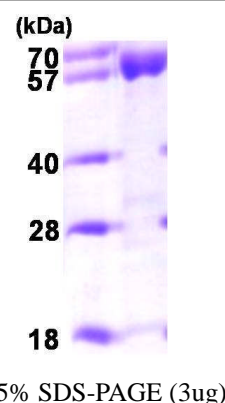
Description: ACADVL, also known as VLCAD, LCACD or ACAD6, is an inner mitochondrial membrane protein that belongs to the family of acyl-CoA dehydrogenases. This protein is involved in lipid metabolism and has catalytic activity toward esters of long chain and very long chain fatty acids such as palmitoyl-CoA 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. Recombinant human ACADVL protein, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques.

Form: Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 10% glycerol
1mM DTT, 1mM EDTA, 0.1M NaCl.

Molecular Weight: 68.5 kDa (636aa)

Purity: > 90 % by SDS – PAGE

Concentration: 0.5 mg/ml (determined by Bradford assay)



Sequences of amino acids:

MGSSHHHHH S SGLVPRGSH MAGGAAQLAL DKSDSHPSDA LTRKKPAKAE SKSFAVGMFK GQLTTDQVFP YPSVLNEEQT QFLKELVEPV
SRFFEEVNDP AKNDALEMVE ETTWQGLKEL GAFGLQVPSE LGGVGLCNTQ YARLVEIVGM HDLGVGITLG AHQSIGFKGI LLFGTKAQKE
KYLPKLASGE TAAAFCLTEP SSGSDAASIR TSAVPSPCGK YYTLNGSKLW ISNGGLADIF TVFAKTPVTD PATGAVKEKI TAFVVERGFG
GITHGPPEKK MGIKASNTAE VFFDGVRVPS ENVLGEVSG FKVAMHILNN GRFGMAAALA GTMRGIIAKA VDHTNRTQF GEKIHNFGLI
QEKLARMVML QYVTESMAYM VSANMDQGAT DFQIEAAISK IFGSEAAWKV TDECIQIMGG MGFMKPEGVE RVLRLRIFR IFEGTNDILR
LFVALQGCMGDKGKELSGLS ALKNPFGNAG LLLGEAGKQL RRRAGLGSGL SLSGLVHPEL SRSSELAVRA LEQFATVVEA KLIKHKKGI
NEQFLLQRLA DGAIDLAMV VVLSRASRSL SEGHPAQHE KMLCOTWCIE AAARIREGMA ALQSDPWQQE LYRNFKSIK ALVERGGVVT
SNPLGF

WARNING: THIS PRODUCT IS NOT INTENDED OR APPROVED FOR HUMAN, DIAGNOSTICS OR VETERINARY USE. USE OF THIS PRODUCT FOR HUMAN OR ANIMAL TESTING IS EXTREMELY HAZARDOUS AND MAY RESULT IN DISEASE, SEVERE INJURY, OR DEATH.

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General references:

Smelt AH., *et al.* (1998) *Ann Neurol.* 43(4):540-4.

Souri M., *et al.* (1996) *Am J Hum Genet.* 58(1):97-106.

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.

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