

Recombinant human ACADVL protein

Catalog Number: ATGP0675

PRODUCT INFORMATION

Expression system

E.coli

Domain

41-655aa

UniProt No.

P49748

NCBI Accession No.

NP_000009

Alternative Names

Very long-chain specific acyl-CoA dehydrogenase mitochondrial, ACAD6, LCACD, VLCAD, Very long-chain specific acyl-CoA dehydrogenase, mitochondrial

PRODUCT SPECIFICATION

Molecular Weight

68.5 kDa (636aa)

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

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

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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 beta-oxidation pathway. A deficiency in this gene product reduces myocardial fatty acid beta-oxidation and is associated with cardiomyopathy. Recombinant human ACADVL

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protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

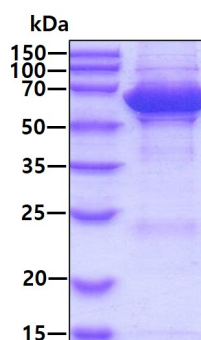
<MGSSHHHHH SSGLVPRGSH> MAGGAAQLAL DKSDSHPSDA LTRKKPAKAE SKSFAVGMFK GQLTTDQVFP
YPSVLNEEQT QFLKELVEPV SRFEEVNDP AKNDALEMVE ETTWQGLKEL GAFGLQVPSE LGGVGLCNTQ YARLVEIVGM
HDLGVGITLG AHQSIGFKGI LLFGTKAQKE KYLPKLASGE TVAAFCLTEP SSGSDAASIR TSAVPSPCGK YYTLNGSKLW
ISNGGLADIF TVFAKTPVTD PATGAVKEKI TAFVVERGFG GITHGPPEKK MGIKASNTAE VFFDGVRVPS ENVLGEVGSG
FKVAMHILNN GRFGMAAALA GTMRGIIAKA VDHA TNRTQF GEKIHNFGLI QEKLARMVML QYVTESMAYM VSANMDQGAT
DFQIEAAISK IFGSEAAWKV TDECIQIMGG MGFMKEPGE RVLRLDRIFR IFEGTNDILR LFVALQGCMG KGKELSGGLS
ALKNPFGNAG LLLGEAGKQL RRRAGLGSG SLSGLVHPEL SRSGELAVRA LEQFATVVEA KLIKHKKGIV NEQFLLQRLA
DGAIDLAMV VVLSRASRSL SEGHPAQHE KMLCDTWCIE AAARIREGMA ALQSDPWQQE LYRNFKSISK ALVERGGVVT
SNPLGF

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.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.