

Product: ACADVL (41-655aa, His-tagged), human
Catalog #: 01-1752-VL
Amount: 10 µg

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.

NCBI Accession No.: NP_000009

Full name: Very long-chain specific acyl-CoA dehydrogenase, mitochondrial

Synonyms: ACAD6, LCACD, VLCAD

AA Sequence:

MGSSHHHHHH SGLVPRGSH MAGGAAQLAL DKSDSHPSDA LTRKKPAKAE SKSFAVGMFK
 GQLTTDQVFP YPSVLNEEQT QFLKELVEPV SRFFEEVNDP AKNDALEMVE ETTWQGLKEL
 GAFGLQVPSE LGGVGLCNTQ YARLVEIVGM HDLGVGITLG AHQSIGFKGI LLFGTAKAQKE
 KYLPKLASGE TVAAFCLTEP SSGSDAASIR TSAVSPCGK YYTLNGSKLW ISNGGLADIF
 TVFAKTPVTD PATGAVKEKI TAFVVERGFG GITHGPPEKK MGIKASNTAE VFFDGVRVPS
 ENVLGEVSG FKVAMHILNN GRFGMAAALA GTMRGIIAKA VDHA TNRTQF GEKIHNFGLI
 QEKLARMVML QYVTESMAYM VSANMDQGAT DFQIEAAISK IFGSEAAWKV TDECIQIMGG
 MGFMKEPGVE RVLRLRIFR IFEGTNDILR LFVALQGCMD KKGELSGLGS ALKNPFGNAG
 LLLGEAGKQL RRRAGLGSGL SLSGLVHPEL SRSSELAVRA LEQFATVVEA KLIKHKKGIV
 NEQFLQRLA DGAIDLYAMV VVLSRASRSL SEGHPAQHE KMLCDTWCIE AAARIREGMA
 ALQSDPWQQE LYRNFKSISK ALVERGGVVT SNPLGF

SOURCE: Recombinant, His-tagged (N), *E. coli* expression system
MOLECULAR WEIGHT: 68.5 kDa (636aa), confirmed by MALDI-TOF
PURITY: > 90% by SDS PAGE
FORM: Purified, in 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 100mM NaCl, 1mM EDTA, 1mM DTT

ENDOTOXIN:
CONCENTRATION: 0.5 mg/ml (Bradford Assay)
STORAGE: -20°C (aliquot), Avoid repeated freeze and thaw cycles

REFERENCE:
 Smelt AH., et al. (1998) Ann Neurol. 43(4):540-544
 Souri M., et al. (1996) Am J Hum Genet. 58(1):97-106



15% SDS-PAGE (3ug)

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