

AR09613PU-N

Human ACADVL (41-655, His-tag) - Purified

Alternate names:

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

Quantity:

50 µg

Concentration:

0.5 mg/ml (determined by Bradford assay)

Background:

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 stearyl-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.

Uniprot ID:

[P49748](#)

NCBI:

[NP_000009](#)

GeneID:

[37](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >90% by SDS – PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1 mM DTT, 1 mM EDTA, 0.1 M NaCl

Description:

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

AA Sequence:

MGSSHHHHH SSGLVPRGSH MAGGAAQLAL DKSDSHPSDA LTRKKPAKAE SKSFAVGMFK
GQLTTDQVFP YPSVLNEEQT QFLKELVEPV SRFFEEVNDP AKNDALEMVE ETTWQGLKEL
GAFGLQVPSE LGGVGLCNTQ YARLVEIVGM HDLGVGITLG AHQSIGFKGI LLFGTKAQKE
KYLPKLASGE TVAAFCLTEP SSGSDAASIR TSAVPSPCGK YYTLNGSKLW ISNGGLADIF
TVFAKTPVTD PATGAVKEKI TAFVVERGFG GITHGPPEKK MGIKASNTAE VFFDGVVRVPS
ENVLGEVGSG FKVAMHILNN GRFGMAAALA GTMRGIIAKA VDHA TNRTQF GEKIHNFGLI
QEKLARMVML QYVTESMAYM VSANMDQGAT DFQIEAAISK IFGSEAAWKV TDECIQIMGG
MGFMKEPGVE RVLRLRIFR IFEGTNDILR LFVALQGCMD KGKELSGLGS ALKNPFGNAG
LLLGEAGKQL RRRAGLGSL SLSGLVHPEL SRSGELAVRA LEQFATVVEA KLIKHKKGIV
NEQFLLQRLA DGAIDLAMV VVLSRASRSL SEGHPAQHE KMLCDTWCIE AAARIREGMA
ALQSDPWQQE LYRNFKSISK ALVERGGVVT SNPLGF

Molecular weight: 68.5 kDa (636aa)

Storage:

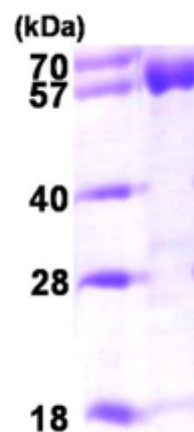
Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

Avoid repeated freezing and thawing.

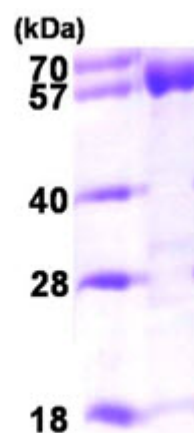
Shelf life: one year from despatch.

Pictures:

Recombinant human ACADVL, 41-655 aa,
His-tagged



15% SDS-PAGE (3ug)



15% SDS-PAGE (3ug)