

**ACADVL, 41-655aa, Human, His tag, E.coli**

**Cat.NO.: TP01029**

3th Edition

**Synonyms:**Very long-chain specific acyl-CoA dehydrogenase, mitochondrial; 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  $\beta$ -oxidation pathway.

**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)

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMAGGAAQLALDKSDSHPSDALTRKKPAKAESKSFVGMFKGQLTTDQVFPYPSV  
LNEEQTQFLKELVEPVSRFFEEVNDPAKNDALMVEETTQQLKELGAFGLQVPSELGGVGLCNTQYARLVEIVG  
MHDLGVGITLGAHQSIGFKGILLFGTKAQKEKYLPLASGETVAAFCLTEPSSGSDAASIRTSAPVSPCGKYITLNGS  
KLWISNGGLADIFTVFAKTPVTDPATGAVKEKITAFVVERGFGGITHGPPEKKMGIKASNTAEVFFDGVVRVPSENVL  
GEVSGSGFKVAMHILNNGRFGMAAALAGTMRGIIAKAVDHATNRTQFGEKIHNFGLIQEKLARMVMLQYVTESMAYM  
VSANMDQGATDFQIEAAISKIFGSEAAWKVTDECIQIMGGMGFMKEPGVERVLRDLRIFRIFEGTNDILRLFVALQGC  
MDKGKELSGLSALKNPFGNAGLLLGEAGQLRRRAGLGSGLSLGLVHPELSRSGELAVRALEQFATVVEAKLIK  
HKKGIVNEQFLLQRLADGAIDLYAMVVVLSRASRSLSEGHPTAQHEKMLCDTWCIEAAARIREGMAALQSDPWQQ  
ELYRNFKSISKALVERGGVVTSNPLGF

**Purity:**> 95% by HPLC

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

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**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.