

## ACADVL Human

**Description:** ACADVL Human Recombinant produced in E.Coli is a non-glycosylated, polypeptide chain containing 636 amino acids (41-655 a.a.) and having a molecular mass of 68.5 kDa. ACADVL contains 21 amino acid His-Tag at the N-terminus and is purified by proprietary chromatographic techniques.

**Catalog #:** ENPS-257

For research use only.

**Synonyms:** ACAD6, LCACD, VLCAD.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered clear solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MAGGAAQLAL DKSDSHPSDA  
LTRKKPAKAE SKSFAVGMFK QQLTTDQVFP YPSVLNEEQT QFLKELVEPV SRFFEEVNDP  
AKNDALEMVE ETTWQGLKEL GAFGLQVPSE LGGVGLCNTQ YARLVEIVGM HDLGVGITLG  
AHQSIGFKGI LLFGTKAQKE KYLPKLASGE TAAAFCLTEP SSGSDAASIR TSAVPSPCGK  
YYTLNGSKLW IS

**Purity:** Greater than 90.0% as determined by SDS-PAGE.

**Formulation:**

The 0.5mg/ml protein solution contains 20mM Tris-HCl buffer pH-8, 1mM DTT, 1mM EDTA, 10% glycerol and 100mM NaCl.

**Stability:**

Store ACADVL at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

ACADVL is an inner mitochondrial membrane enzyme that is part of the family of acyl-CoA dehydrogenases. ACADVL protein participates 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 is involved in the first step of the fatty acid -oxidation pathway. ACADVL deficiency in reduces myocardial fatty acid beta-oxidation and is related with cardiomyopathy.

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