

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 SGLVPRGSH MAGGAAQLAL DKSDSHPSDA
LTRKKPAKAE SKSFAVGMFK GQLTTDQVFP 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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