

---

**Product Data Sheet**


---

Product Name: ACADVL Human

Cat. No.: GP21333

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	ACAD6; LCACD; VLCAD.		
Amino Acid Sequence	<p>MGSSHHHHHH SSGLVPRGSH MAGGAAQLAL DKSDSHPSDA LTRKKPAKAE            SKSFAVGMFK GQLTTDQVFP YPSVLNEEQT QFLKELVEPV SRFFEEVNDP            AKNDALEMVE ETTWQGLKEL GAFGLQVPSE LGGVGLCNTQ YARLVEIVGM            HDLGVGITLG AHQSIGFKGI LLFGTKAQKE KYLPKLASGE TAAAFCLTEP            SSGSDAASIR TSAVPSPCGK YYTLNGSKLW ISNGGLADIF TVFAKTPVTD            PATGAVKEKI TAFVVERGFG GITHGPPEKK MGIKASNTAE VFFDGVRVPS            ENVLGEVGSF FKVAMHILNN GRFGMAAALA GTMRGIIAKA VDCHATNRTQF            GEKIHNFGLI QEKLARMVML QYVTESMAYM VSANMDQGAT DFQIEAAISK            IFGSEAAWKV TDECIQIMGG MGFMKKEPGVE RVLRLDLRIFR IFEGTNDILR            LFVALQGCMD KKGKLSGLGS ALKNPFGNAG LLLGEAGKQL RRRAGLGSGL            SLSGLVHPEL SRSGELAVRA LEQFATVVEA KLIKHKKGIV NEQFLLQRLA            DGAIPLYAMV VVLSRASRSL SEGHPAQHE KMLCDTWCIE AAARIREGMA            ALQSDPWQQE LYRNFKSISK ALVERGGVVT SNPLGF.</p>		
Formulation	The 0.5mg/ml protein solution contains 20mM Tris-HCl buffer pH-8, 1mM DTT, 1mM EDTA, 10% glycerol and 100mM NaCl.		

**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  $\alpha$ -oxidation pathway. ACADVL deficiency in reduces myocardial fatty acid beta-oxidation and is related with cardiomyopathy.

**Stability**

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

---

---

## Product Data Sheet

---

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.

### Background

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.

**Caution: Product has not been fully validated for medical applications. For research use only.**

**Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com**

**Address: 10292 Central Ave. #205, Montclair, CA, USA**