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# **Recombinant human ACADL protein**

Catalog Number: ATGP1278

#### PRODUCT INFORMATION

# **Expression system**

E.coli

#### **Domain**

31-430aa

#### UniProt No.

P28330

#### **NCBI Accession No.**

NP 001599

### **Alternative Names**

Acyl-CoA dehydrogenase long chain, Acyl-CoA dehydrogenase, long chain, ACAD4, FLJ94052, LCAD

### **PRODUCT SPECIFICATION**

### **Molecular Weight**

46.7 kDa (421aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT, 0.15M NaCl

#### **Purity**

> 85% by SDS-PAGE

#### Tag

His-Tag

# **Application**

SDS-PAGE

# **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **Description**

ACADL belongs to the acyl-CoA dehydrogenase family, existing as a homotetramer. It is involved in the catabolism of fatty acids and amino acids and they provide a major source of energy for the heart and skeletal muscle. Defect in the gene encoding ACADL leads to non-ketotic hypoglycemia and hypotonia, muscle weakness. Recombinant human ACADL protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques



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# **Amino acid Sequence**

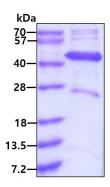
<MGSSHHHHHH SSGLVPRGSH M>GGEERLETP SAKKLTDIGI RRIFSPEHDI FRKSVRKFFQ EEVIPHHSEW EKAGEVSREV WEKAGKQGLL GVNIAEHLGG IGGDLYSAAI VWEEQAYSNC SGPGFSIHSG IVMSYITNHG SEEQIKHFIP QMTAGKCIGA IAMTEPGAGS DLQGIKTNAK KDGSDWILNG SKVFISNGSL SDVVIVVAVT NHEAPSPAHG ISLFLVENGM KGFIKGRKLH KMGLKAQDTA ELFFEDIRLP ASALLGEENK GFYYIMKELP QERLLIADVA ISASEFMFEE TRNYVKQRKA FGKTVAHLQT VQHKLAELKT HICVTRAFVD NCLQLHEAKR LDSATACMAK YWASELQNSV AYDCVQLHGG WGYMWEYPIA KAYVDARVQP IYGGTNEIMK ELIAREIVFD K

#### **General References**

Maher AC., et al. (2010) Mol Genet Metab. 100(2):163-7. Wanders RJ., et al. (1998) Biochim Biophys Acta. 1393(1):35-40.

# **DATA**

#### **SDS-PAGE**



3ug by SDS PAGE under reducing condition and visualized by coomassie blue stain

