

Recombinant Human Acyl-CoA Dehydrogenase, Long Chain, His-tagged

Cat. No. ACADL-1278H Lot. No. (See product label)

SPECIFICATION

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|---------------------------------|--|
| Product Overview | Recombinant human ACADL protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. |
| Species | Human |
| Source | Human |
| 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. |
| Form | Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 30% glycerol, 0.1 M NaCl. |
| Molecular Weight | 46.7 kDa (421aa), confirmed by MALDI-TOF |
| Purity | > 85 % by SDS-PAGE |
| Concentration | 1 mg/ml (determined by Bradford) |
| Sequences of amino acids | MGSSHHHHHH SSSLVPRGSH MGGEERLETP SAKKLTDIGI RRIFSPEHDI FRKSVRKFFQ EEVIPHHSEW EKAGEVSREV WEKAGKQGLL GVNIAEHLGG IGGDLYSAAI VWEEQAYSNC SGPGFSIHSG IVMSYITNHG SEEQIKHFIP |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

QMTAGKCIGA IAMTEPGAGS DLQGIKTNAK KDGSDWILNG SKVFISNGSL
 SDVVIVVAVT NHEAPSPAHG ISLFLVENGM KGFIKGRKLH KMGLKAQDTA
 ELFFEDIRLP ASALLGEENK GFYYIMKELP QERLLIADVA ISASEFMFEE
 TRNYVKQRKA FGKTVAHLQT VQHKLAEKLT HICVTRAFVD NCLQLHEAKR
 LDSATACMAK YWASELQNSV AYDCVQLHGG WGYMWEYPIA KAYVDARVQP
 IYGGTNEIMK ELIAREIVFD K

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.

Pathways

Beta oxidation of lauroyl-CoA to decanoyl-CoA-CoA; Fatty acid metabolism; Fatty acid, triacylglycerol, and ketone body metabolism; Metabolic pathways; Metabolism of lipids and lipoproteins; Mitochondrial Fatty Acid Beta-Oxidation; PPAR signaling pathway; mitochondrial fatty acid beta-oxidation of saturated fatty acids

GENE INFORMATION

Gene Name

ACADL acyl-CoA dehydrogenase, long chain [Homo sapiens]

Official Symbol

ACADL

Synonyms

ACADL; acyl-CoA dehydrogenase, long chain; long-chain specific acyl-CoA dehydrogenase, mitochondrial; OTTHUMP00000163937; acyl-Coenzyme A dehydrogenase, long chain; LCAD; ACAD4; FLJ94052

Gene ID

33

mRNA Refseq


NM_001608

Protein Refseq

NP_001599

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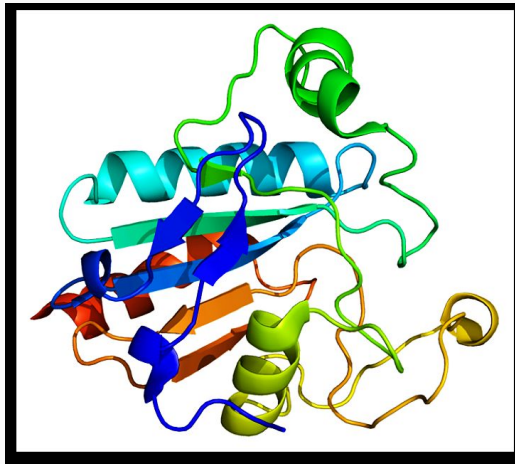
MIM 609576

UniProt ID P28330

**Chromosome
Location** 2q34-q35

Function acyl-CoA dehydrogenase activity; fatty-acyl-CoA binding; flavin adenine dinucleotide binding; long-chain-acyl-CoA dehydrogenase activity; palmitoyl-CoA oxidase activity

**PDB rendering
based on 2he3.**



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