

AR50103PU-S**Human ACADL (31-430, His-tag) - Purified**

Alternate names:	LCAD, Long-chain specific acyl-CoA dehydrogenase, mitochondrial
Quantity:	50 µg
Concentration:	1 mg/ml (determined by Bradford)
Background:	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
Uniprot ID:	P28330
NCBI:	NP_001599
GeneID:	33
Species:	Human
Source:	E. coli
Format:	State: Liquid purified protein Purity: >85% by SDS - PAGE Buffer System: 20 mM Tris-HCl buffer(pH 8.0) containing 10% glycerol, 1mM DTT, 0.15M NaCl.
Description:	AA Sequence: MGSSHHHHH SSGLVPRGSH MGGEERLETP SAKKLTDIGI RRIFSPHEHI FRKSVRKFQ EEVIPHHSEW EKAGEVSREV WEKAGKQLL GVNIAEHLGG IGGDLYSAAI VWEEQAYSNC SGPGFSIHSG IVMSYITNHG SEEQIKHFIP QMTAGKCIGA IAMTEPGAGS DLQGIKTNAK KDGSDWILNG SKVFISNGSL SDVVIVVAVT NHEAPSPAHG ISLFLVENG M KGF I KGRKLH KMGLKAQDTA ELFFEDIRLP ASALLGEENK GFYYIMKELP QERLLIADVA ISASEFMFEE TRNYVKQRKA FGKTVAHLQT VQHKLAELKT HICVTRAFVD NCLQLHEAKR LDSATACMAK YWASELQNSV AYDCVQLHGG WGYMWEYPIA KAYVDARVQP IYGGTNEIMK ELIAREIVFD K Molecular weight: 46.7 kDa (421aa), confirmed by MALDI-TOF
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	Maher AC., et al. (2010) Mol Genet Metab. 100(2):163-7.Wanders RJ., et al. (1998) Biochim Biophys Acta. 1393(1):35-40.

Pictures:

