Recombinant Human ACADVL, His-tagged

Cat. No. ACADVL-26050TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human ACADVL with an N terminal His tag; 636 amino acids including tag, MWt 68.5kDa.
Species	Human
Source	E.coli
ProteinLength	615 amino acids
Description	The protein encoded by this gene is targeted to the inner mitochondrial membrane where it catalyzes the first step of the mitochondrial fatty acid beta-oxidation pathway. This acyl-Coenzyme A dehydrogenase is specific to long-chain and very-long-chain fatty acids. A deficiency in this gene product reduces myocardial fatty acid beta-oxidation and is associated with cardiomyopathy. Alternative splicing results in multiple transcript variants encoding different isoforms.
Conjugation	HIS
Molecular Weight	68.500kDa inclusive of tags
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 10% Glycerol, 0.1M Sodium chloride, 20mM Tris

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	HCl, 1mM EDTA, 1mM DTT, pH 8.0
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHHSSGLVPRGSHMAGGAAQLALDKSDSHPSDALTRKKPAKAESKSFA VGMFKGQLTTDQVFPYPSVLNEEQTQFLKELVEPVSRFFEEVNDPAKNDALEMVEE TTWQGLKELGAFGLQVPSELGGVGLCNTQYARLVEIVGMHDLGVGITLGAHQSIGF KGILLFGTKAQKEKYLPKLASGETVAAFCLTEPSSGSDAASIRTSAVPSPCGKYYTLN GSKLWISNGGLADIFTVFAKTPVTDPATGAVKEKITAFVVERGFGGITHGPPEKKMGI KASNTAEVFFDGVRVPSENVLGEVGSGFKVAMHILNNGRFGMAAALAGTMRGIIAK AVDHATNRTQFGEKIHNFGLIQEKLARMVMLQYVTESMAYMVSANMDQGATDFQIE AAISKIFGSEAAWKVTDECIQIMGGMGFMKEPGVERVLRDLRIFRIFEGTNDILRLFVA LQGCMDKGKELSGLGSALKNPFGNAGLLLGEAGKQLRRRAGLGSGLSLSGLVHPEL SRSGELAVRALEQFATVVEAKLIKHKKGIVNEQFLLQRLADGAIDLYAMVVVLSRASR SLSEGHPTAQHEKMLCDTWCIEAAARIREGMAALQSDPWQQELYRNFKSISKALVE RGGVVTSNPLGF
Sequence Similarities	Belongs to the acyl-CoA dehydrogenase family.

GENE INFORMATION

Gene Name	ACADVL acyl-CoA dehydrogenase, very long chain [Homo sapiens]
Official Symbol	ACADVL
Synonyms	ACADVL; acyl-CoA dehydrogenase, very long chain; acyl Coenzyme A dehydrogenase, very long chain; very long-chain specific acyl-CoA dehydrogenase, mitochondrial; ACAD6; LCACD; VLCAD;

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Gene ID	37
mRNA Refseq	NM_000018
Protein Refseq	NP_000009
MIM	609575
Uniprot ID	P49748
Chromosome Location	17p13.1
Pathway	Activation of Chaperones by IRE1alpha, organism-specific biosystem; Beta oxidation of palmitoyl-CoA to myristoyl-CoA, organism-specific biosystem; Diabetes pathways, organism-specific biosystem; FOXA2 and FOXA3 transcription factor networks, organism-specific biosystem; Fatty Acid Beta Oxidation, organism-specific biosystem;
Function	acyl-CoA dehydrogenase activity; fatty-acyl-CoA binding; flavin adenine dinucleotide binding; long-chain-acyl-CoA dehydrogenase activity; very long-chain-acyl-CoA dehydrogenase activity;

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