

Recombinant Human ACADM, His-tagged

Cat. No. ACADM-26047TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human full length ACADM with a N terminal His tag; a single, non-glycosylated polypeptide chain; 417 amino acids with tag; predicted Mwt: 45.9 kDa.
Species	Human
Source	E.coli
ProteinLength	396 amino acids
Description	This gene encodes the medium-chain specific (C4 to C12 straight chain) acyl-Coenzyme A dehydrogenase. The homotetramer enzyme catalyzes the initial step of the mitochondrial fatty acid beta-oxidation pathway. Defects in this gene cause medium-chain acyl-CoA dehydrogenase deficiency, a disease characterized by hepatic dysfunction, fasting hypoglycemia, and encephalopathy, which can result in infantile death. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Conjugation	HIS
Molecular Weight	45.900kDa
Form	Liquid
Purity	>90% by SDS-PAGE

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Storage buffer	pH: 7.50 Constituents: 20% Glycerol, 0.32% Tris HCl
Storage	Please see Notes section
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MKANRQREPG LGFSFEFTEQ QKEFQATARK FAREEIIPVA AEYDKTGEYP VPLIRRAWEL GLMNTHIPEN CGGLGLGTFD ACLISEELAY GCTGVQTAIE GNSLGQMPII IAGNDQQKKK YLGRMTEEPL MCAYCVTEPG AGSDVAGIKT KAEKKGDEYI INGQKMWITN GGKANWYFLL ARSDPDPKAP ANKAFTGFIV EADTPGIQIG RKELNMGQRC SDTRGIVFED VKVPKENVLI GDGAGFKVAM GAFDKTRPVV AAGAVGLAQR ALDEATKYAL ERKTFGKLLV EHQAISFMLA EMAMKVELAR MSYQRAAWEV DSGRRNTYYA SIKAFAGDI ANQLATDAVQ ILGGNGFNTE YPVEKLMRDA KIYQIYEGTS QIQR LIVARE HIDKYKN
Sequence Similarities	Belongs to the acyl-CoA dehydrogenase family.
GENE INFORMATION	
Gene Name	ACADM acyl-CoA dehydrogenase, C-4 to C-12 straight chain [Homo sapiens]
Official Symbol	ACADM
Synonyms	ACADM; acyl-CoA dehydrogenase, C-4 to C-12 straight chain; acyl Coenzyme A dehydrogenase, C 4 to C 12 straight chain; medium-chain specific acyl-CoA dehydrogenase, mitochondrial; ACAD1; MCAD; MCADH;
Gene ID	34
mRNA Refseq	NM_000016

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Protein Refseq	NP_000007
MIM	607008
Uniprot ID	P11310
Chromosome Location	1p31
Pathway	Beta oxidation of decanoyl-CoA to octanoyl-CoA-CoA, organism-specific biosystem; Beta oxidation of octanoyl-CoA to hexanoyl-CoA, organism-specific biosystem; FOXA2 and FOXA3 transcription factor networks, organism-specific biosystem; Fatty Acid Beta Oxidation, organism-specific biosystem; Fatty acid metabolism, organism-specific biosystem;
Function	acryloyl-CoA reductase activity; acyl-CoA dehydrogenase activity; acyl-CoA dehydrogenase activity; acyl-CoA dehydrogenase activity;