

## Recombinant Human ACADM, His-tagged

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

### SPECIFICATION

|                         |   |
|-------------------------|---|
| <b>Product Overview</b> | 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.   |
| <b>Species</b>          | Human   |
| <b>Source</b>           | E.coli  |
| <b>ProteinLength</b>    | 396 amino acids   |
| <b>Description</b>      | 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. |
| <b>Conjugation</b>      | HIS   |
| <b>Molecular Weight</b> | 45.900kDa   |
| <b>Form</b>             | Liquid  |
| <b>Purity</b>           | >90% by SDS-PAGE  |

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|---------------------------------|---|
| <b>Storage buffer</b>           | pH: 7.50 Constituents: 20% Glycerol, 0.32% Tris HCl   |
| <b>Storage</b>                  | Please see Notes section  |
| <b>Sequences of amino acids</b> | <p>MGSSHHHHHH SSGLVPRGSH MKANRQREPG LGFSFEFTEQ QKEFQATARK<br/>         FAREEIIIPVA AEYDKTGEYP VPLIRRAWEL GLMNTHIPEN CGGLGLGTFD<br/>         ACLISEELAY GCTGVQTAIE GNSLQMPPII IAGNDQQKKK YLGRMTEEPL<br/>         MCAYCVTEPG AGSDVAGIKT KAEKKGDEYI INGQKMWITN GGKANWYFLL<br/>         ARSDPDPKAP ANKAFTGFIV EADTPGIQIG RKELNMGQRC SDTRGIVFED<br/>         VKVPKENVLI GDGAGFKVAM GAFDKTRPVV AAGAVGLAQR ALDEATKYAL<br/>         ERKTFGKLLV EHQAISFMLA EMAMKVELAR MSYQRAAWEV DSGRRNTYYA<br/>         SIAKAFAGDI ANQLATDAVQ ILGGNGFNTE YPVEKLMRDA KIYQIYEGTS<br/>         QIQR LIVARE HIDKYKN</p> |
| <b>Sequence Similarities</b>    | Belongs to the acyl-CoA dehydrogenase family.   |
| <b>GENE INFORMATION</b>         |   |
| <b>Gene Name</b>                | <a href="#">ACADM acyl-CoA dehydrogenase, C-4 to C-12 straight chain [ Homo sapiens ]</a>   |
| <b>Official Symbol</b>          | <a href="#">ACADM</a>   |
| <b>Synonyms</b>                 | 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;  |
| <b>Gene ID</b>                  | <a href="#">34</a>  |
| <b>mRNA Refseq</b>              | <a href="#">NM_000016</a>   |

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|                            |   |
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| <b>Protein Refseq</b>      | NP_000007   |
| <b>MIM</b>                 | 607008  |
| <b>Uniprot ID</b>          | P11310  |
| <b>Chromosome Location</b> | 1p31  |
| <b>Pathway</b>             | 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; |
| <b>Function</b>            | acryloyl-CoA reductase activity; acyl-CoA dehydrogenase activity; acyl-CoA dehydrogenase activity; acyl-CoA dehydrogenase activity; acyl-CoA dehydrogenase activity;  |

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