

## Acyl-Coenzyme A Dehydrogenase Recombinant Protein | ACADM recombinant protein

Recombinant Human Acyl-Coenzyme A Dehydrogenase, C-4 to C-12

CATALOG #  
**AAA38785**

HOST  
**E Coli**

### PRODUCT SYNONYMS

Acyl-Coenzyme A Dehydrogenase; Recombinant Human Acyl-Coenzyme A Dehydrogenase; C-4 to C-12; ACADM Human; C-4 to C-12 Human Recombinant; ACADM; ACAD1; CAD; MCADH; MCAD; EC=1.3.99.3; Medium-chain specific acyl-CoA dehydrogenase; mitochondrial; FLJ18227; FLJ93013; FLJ99884; ACADM recombinant protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | E Coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Purity/Purification     | Greater than 90.0% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Form/Format             | The ACADM (0.5mg/ml) protein solution containing 20mM Tris-HCl pH-7.5, 0.1M NaCl & 20% glycerol. Sterile filtered clear solution.                                                                                                                                                                                                                                                                                                                                           |
| Sequence                | MGSSHHH HHHSSGLVPR GSHMKA NRQREPLGF SFEFTEQQKE FQATARKFAR EEIIPVAAEY DKTGEYPVPL IRRRAWELGLM NTHIPENCGG LGLGTFDACL ISEELAYGCT GVQTAIEGNS LGQMPIIIAG NDQKKKKYLGRMTEEPLMCA YCVTEPGAGS DVAGIKTKAE KKGDEYIING QKMWITNGGK ANWYFLLARS DPDPKAPANK AFTGFIVEAD TPGIQIGRKE LNMGQRCSDT RGIVFEDVKV PKENVLIGDG AGFKVAMGAF DKTRPVVAAG AVGLAQRALD EATKYALERK TFGKLLVEHQ AISFMLAEMA MKVELARMSY QRAAWEVDSG RRNTYYASIA KAFAGDIANQ LATDAVQILG GNGFNTTEYPV EKLMRDAKIY QIYEGTSQIQ RLIVAREHID KYKN |
| Sequence Length         | 421                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Preparation and Storage | ACADM Human although stable at 4 degree C for 1 week, should be stored desiccated below -18 degree C. Please prevent freeze thaw cycles.                                                                                                                                                                                                                                                                                                                                    |

### ADDITIONAL INFORMATION

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|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for ACADM recombinant protein | <p><b>Introduction:</b> ACADM enzyme is essential for the degradation a certain group of fats called medium-chain fatty acids. ACADM is essential for converting specific fatty acids to energy, mainly during fasting periods. ACADM functions in mitochondria, the energy-producing centers within cells. ACADM is localized in the mitochondria of numerous tissue types, predominantly the liver.</p> <p><b>Description:</b> ACADM Recombinant Human produced in E Coli is a single, non-glycosylated peptide chain containing 417 amino acids (26-421 a.a) and having molecular mass of 45.9 kDa. The ACADM is fused to a 21 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.</p> |
| Product Categories/Family for ACADM recombinant protein   | Enzymes; Dehydrogenase                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

### NCBI AND UNIPROT INFORMATION

|                           |                        |
|---------------------------|------------------------|
| NCBI GI #                 | 4557231                |
| NCBI GeneID               | 34                     |
| NCBI Accession #          | NP_000007.1            |
| NCBI GenBank Nucleotide # | NM_000016.5            |
| UniProt Accession #       | P11310; Q5T4U4; Q9NYF1 |
| Molecular Weight          | 47,020 Da              |

|                                  |                                                                                                                        |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------|
| NCBI Official Full Name          | medium-chain specific acyl-CoA dehydrogenase, mitochondrial isoform a                                                  |
| NCBI Official Synonym Full Names | acyl-CoA dehydrogenase, C-4 to C-12 straight chain                                                                     |
| NCBI Official Symbol             | ACADM                                                                                                                  |
| NCBI Official Synonym Symbols    | MCAD; ACAD1; MCADH                                                                                                     |
| NCBI Protein Information         | medium-chain specific acyl-CoA dehydrogenase, mitochondrial; acyl-Coenzyme A dehydrogenase, C-4 to C-12 straight chain |
| UniProt Protein Name             | Medium-chain specific acyl-CoA dehydrogenase, mitochondrial                                                            |
| UniProt Gene Name                | <b>ACADM</b>                                                                                                           |
| UniProt Synonym Gene Names       | MCAD                                                                                                                   |
| UniProt Entry Name               | ACADM_HUMAN                                                                                                            |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/acadm-recombinant-protein-e-coli/38785>