

Product information



ACADM, 26-421 aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP0603

Full name: Medium-chain specific acyl-CoA dehydrogenase

NCBI Accession No.: NP_000007

Synonyms: ACAD1, CAD, MCADH

Description: ACADM, also known as acyl-Coenzyme A dehydrogenase is an enzyme that is important for breaking down (degrading) a certain group of fats called medium-chain fatty acids. It is essential for converting these particular fatty acids to energy, especially during periods without food (fasting). This protein functions in mitochondria, the energy-producing centers within cells. It is found in the mitochondria of several types of tissues, particularly the liver. Recombinant human ACADM protein, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques.

<p>Form: Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol 0.1M NaCl</p> <p>Molecular Weight: 45.9 kDa (417aa) confirmed by MALDI-TOF</p> <p>Purity: > 90% by SDS - PAGE</p> <p>Concentration: 0.5 mg/ml (determined by Bradford assay)</p>	<p>(kDa) 70 57 40 28 18 13.5 8.5</p> <p>15% SDS-PAGE (3ug)</p>
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Sequences of amino acids:

MGSSHHHHHH SSGLVPRGSH MKANRQREPG LGFSFEFTEQ QKEFQATARK FAREE IIPVA AEYDKTGEYP VPLIRRAWEL GLMNTHIPEN
CGGLGLGTFD ACLISEELAY GCTGVQTAIE GNSLGQMPII IAGNDQKKK YLGRMTEEPL MCAYCVTEPG AGSDVAGIKT KAEKKGDEYI
INGQKMWITN GGKANWYFLL ARSDPDPKAP ANKAFTGFIV EADTPGIQIG RKELNMGQRC SDTRGIVFED VKVPKENVLI GDGAGFKVAM
GAFDKTRPVV AAGAVGLAQR ALDEATKYAL ERKTFGKLLV EHQAISFMLA EMAMKVELAR MSYQRAAWEV DSGRRNTYYA SIAKAFAGDI
ANQLATDAVQ ILGGNGFNTE YPVEKLMRDA KIYQIYEGTS QIQLRIVARE HIDKYKN

General references:

WARNING: THIS PRODUCT IS NOT INTENDED OR APPROVED FOR HUMAN, DIAGNOSTICS OR VETERINARY USE. USE OF THIS PRODUCT FOR HUMAN OR ANIMAL TESTING IS EXTREMELY HAZARDOUS AND MAY RESULT IN DISEASE, SEVERE INJURY, OR DEATH.

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Gregersen N., *et al.* (2001) *Hum Mutat.* 18(3):169-89.

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.
Avoid repeated freezing and thawing cycles.

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