OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850
UNITED STATES
Phone: +1-888-267-4436
Fax: +1-301-340-8606
techsupport@origene.com

OriGene Technologies GmbH
Schillerstr. 5
32052 Herford
GERMANY
Phone: +49-5221-34606-0
Fax: +49-5221-34606-11
info-de@origene.com

AR09540PU-L Human ACADM (26-421, His-tag) - Purified

Alternate names: MCAD, Medium-chain specific acyl-CoA dehydrogenase mitochondrial

Quantity: 0.25 mg

Concentration: 0.5 mg/ml (determined by Bradford assay)

Background: 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.

Uniprot ID: P11310

NCBI: NP_000007

GeneID: 34

Species: Human

Source: E. coli

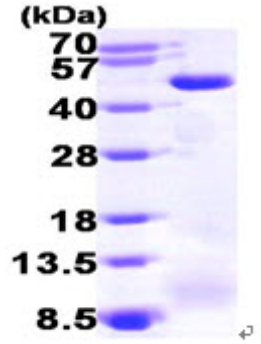
Format:
State: Liquid purified protein
Purity: >90% by SDS - PAGE
Buffer System: 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl

Description: Recombinant human ACADM protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
AA Sequence:
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 SIAKAFAGDI
ANQLATDAVQ ILGGNGFNTE YPVEKLMRDA KIYQIYEGTS QIQRLIVARE HIDKYKN
Molecular weight: 45.9 kDa (417aa) confirmed by MALDI-TOF

Storage: Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

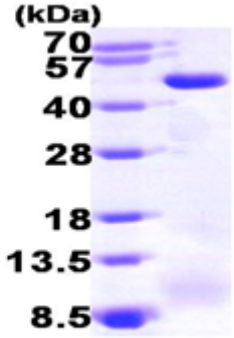
General Readings: Gregersen N., et al. (2001) Hum Mutat. 18(3):169-89.

Pictures:



15% SDS-PAGE (3ug)

Recombinant human ACADM, 26-421 aa, His-tagged



15% SDS-PAGE (3ug)