
Product Data Sheet

Product Name: ACADM Human
 Cat. No.: GP21330
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	ACADM; ACAD1; CAD; MCADH; MCAD; EC=1.3.99.3; Medium-chain specific acyl-CoA dehydrogenase; mitochondrial; FLJ18227; FLJ93013; FLJ99884.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH 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.		
Formulation	The ACADM (0.5mg/ml) protein solution containing 20mM Tris-HCl pH-7.5, 0.1M NaCl & 20% glycerol.		

Introduction

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.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1%

Caution: Product has not been fully validated for medical applications. For research use only.

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HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

ACADM Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide chain containing 417 amino acids (26-421 a.a.) and having a 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.

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