
Product Data Sheet

Product Name: ACAA2 Human
 Cat. No.: GP21327
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	DSAEC; 3-ketoacyl-CoA thiolase; mitochondrial; Acetyl-CoA acyltransferase; Beta-ketothiolase.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSFGAYGGL LKDFATDLS EFAAKAALSA GKVSPETVDS VIMGNVLQSS SDAIYLARHV GLRVGIPKET PALTINRLCG SGFQSIVNGC QEICVKEAEV VLCGGTESMS QAPYCVRNVR FGTKLGSDIK LEDSLWVSLT DQHVQLPMAM TAENLAVKHK ISREECDKYA LQSQRWKAA NDAGYFNDEM APIEVKTKKG KQTMQVDEHA RPQTTLEQLQ KLPPVFKKDG TVTAGNASGV ADGAGAVIIA SEDAVKKHNF TPLARIVGYF VSGCDPSIMG IGPVPAISGA LKKAGLSLKD MDLVEVNEAF APQYLAVERS LDLDISKTNV NGGAIALGHP LGGSGSRITA HLVHELRRRG GKYAVGSACI GGGQGIAVII QSTA.		
Formulation	The ACAA2 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.		

Introduction

Acetyl-CoA Acyltransferase 2, (ACAA2) is a member of the thiolase family. ACAA2 catalyzes the final step of the mitochondrial fatty acid beta-oxidation spiral. Not like most mitochondrial matrix proteins, ACAA2 contains a non-cleavable amino-terminal targeting signal.

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

Background

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

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ACAA2 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 404 amino acids (17-397) and having a molecular mass of 42.6kDa. ACAA2 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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