

ACAA2 Human

Acetyl-CoA Acyltransferase 2 Human Recombinant
ENZ0010

Product Overview

Name ACAA2 Human

Description

Acetyl-CoA Acyltransferase 2 Human Recombinant

Accession (Primary) [P42765](#)

Synonyms

Acyl-CoA dehydrogenase family member 8 mitochondrial, ACAD-8, Isobutyryl-CoA dehydrogenase, Activator-recruited cofactor 42 kDa component, ARC42, FLJ22590.

Introduction

Acyl CoA dehydrogenase is the enzyme used to catalyze the first step of β -oxidation in Fatty acid metabolism. Acyl-coenzyme A (CoA) dehydrogenases (ACADs) are a family of mitochondrial enzymes that catalyze the first dehydrogenation step in the β -oxidation of fatty acyl-CoA derivatives. Several human ACADs exist and all ACADs catalyze the same initial dehydrogenation of the substrate at the beta-carbon atom and require electron transfer flavoprotein as an electron acceptor. The predicted 415-amino acid ACAD8 protein contains many of the residues conserved in most other ACADs, including an active site glutamic acid residue and residues important for tetramer formation.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered clear solution.

Formulation

The ACAD8 solution contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 1mM DTT and 30% glycerol.

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.

Purity

Greater than 95% as determined by SDS-PAGE.

Amino acid sequence

MGSSHHHHHH SSGLVPRGSH MGS LVQTGHR SLTSCIDPSM GLNEEQKEFQ KVAFDFAARE MAPNMAEWDQ

KELFPVDVMR KAAQLGFGGV YIQTDVGGSG LSRLDTSVIF EALATGCTST TAYISIHMC AWMIDSFGNE
EQRHKFCPPL CTMEKFASYC LTEPGSGSDA ASLLTSAKKQ GDHYILNGSK AFISGAGESD IYVVMCRTGG
PGPKGISCIV VEKGTPLSF GKKEKKVGWN SQPTRAVIFE DCAVPVANRI GSEGQGFLIA VRGLNGGRIN
IASCSLGAH ASVILTRDHL NVRKQFGEPL ASNQYLQFTL ADMATRLVAA RLMVRNAAVA LQEERKDAVA
LCSMAKLFAT DECFAICNQA LQMHGGYGYL KDYAVQQYVR DSRVHQILEG SNEVMRILIS RSLLQE.

Precautions

ACAA2 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: ([P42765](#))