

# Recombinant human ACAA2 protein

Catalog Number: ATGP2020

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

17-397

### UniProt No.

P42765

### NCBI Accession No.

NP\_006102

### Alternative Names

Acetyl-CoA acyltransferase 2, DSAEC

## PRODUCT SPECIFICATION

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### Molecular Weight

42.6 kDa (404aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

### Purity

> 85% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

ACAA2 catalyzes the last step of the mitochondrial fatty acid beta-oxidation spiral. Unlike most mitochondrial matrix proteins, it contains a non-cleavable amino-terminal targeting signal. Recombinant human ACAA2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

### Amino acid Sequence

<MGSSHHHHHH SGLVPRGSH MGS>FGAYGGL LKDFATDLS EFAAKAALSA GKVSPETVDS VIMGNVLQSS

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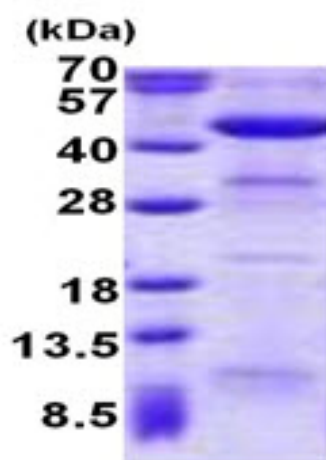
SDAIYLARHV GLRVGIPKET PALTINRLCG SGFQSIIVNGC QEICVKEAEV VLCGGTESMS QAPYCVRNVR FGTKLGSDIK  
LEDLWVSLT DQHVQLPMAM TAENLAVKHK ISREECDKYA LQSQQRWCAA NDAGYFNDEM APIEVKTKKG  
KQTMQVDEHA RPQTTLEQLQ KLPPVFKKDG TVTAGNASGV ADGAGAVIIA SEDAVKKHNF TPLARIVGYF VSGCDPSIMG  
IGPVPAISGA LKKAGLSLKD MDLVEVNEAF APQYLAVERS LDLDISKTNV NGGAIALGHP LGGSGSRITA HLVHELRRRG  
GKYAVGSACI GGGQGIIVII QSTA

## General References

Cao,W ,et al. (2008) Biochim. Biophys. Acta 1780 (6), 873-880

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)