

# Recombinant human ACAA protein

Catalog Number: ATGP0674

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

27-424aa

### UniProt No.

P09110

### NCBI Accession No.

NP\_001598

### Alternative Names

3-ketoacyl-CoA thiolase peroxisomal, ACAA, PTHIO, THIO, 3-ketoacyl-CoA thiolase, peroxisomal

## PRODUCT SPECIFICATION

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### Molecular Weight

43.8 kDa (419aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 1mM DTT, 0.1M NaCl

### Purity

> 95% 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

ACAA1 is a member of the thiolase family of enzymes and is involved in lipid metabolism. This protein is localized to the peroxisome and catalyzes the conversion of acyl-CoA and acetyl-CoA to 3-oxoacyl-CoA in the fatty acid oxidation pathway. ACAA1 shows high enzymatic activity in liver, kidney, intestine and white adipose tissue in rats. Deficiency of this enzyme leads to pseudo-Zellweger syndrome. Recombinant human ACAA1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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## Amino acid Sequence

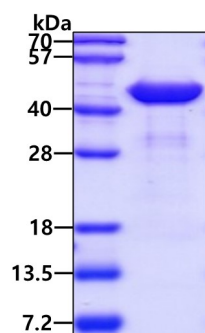
<MGSSHHHHHH SSGLVPRGSH> MLSGAPQASA ADVVVVHGRR TAICRAGRGG FKDTTPDELL SAVMTAVLKD  
VNLRPEQLGD ICVGNVLQPG AGAIMARIAQ FLSDIPETVP LSTVNRQCSS GLQAVASIAG GIRNGSYDIG MACGVESMSL  
ADRGNPGNIT SRLMEKEKAR DCLIPMGITS ENVAERFGIS REKQDTFALA SQQKAARAQS KGCFQAEIVP VTTTVHDDKG  
TKRSITVTQD EGIRPSTTME GLAKLKPAFK KDGSTTAGNS SQVSDGAAAI LLARRSKAEE LGLPILGVLR SYAVVGVPPD  
IMGIGPAYAI PVALQKAGLT VSDVDIFEIN EAFASQAAYC VEKLRLLPPEK VNPLGGAVAL GHPLGCTGAR QVITLLNELK  
RRGKRAYGVV SMCIGTGMGA AAVFEYPGN

## General References

Bout A., et al. (1991) *Biochim Biophys Acta*. 1090(1):43-51.  
Patel S., et al. (2003) *Eur Respir J*. 22(5):755-60.

## DATA

### SDS-PAGE



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