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AR09612PU-N Human ACAA1 (27-424, His-tag) - Purified

Alternate names: 3-ketoacyl-CoA thiolase peroxisomal, Acetyl-CoA acyltransferase, Beta-ketothiolase, PTHIO, Peroxisomal 3-oxoacyl-CoA thiolase

Quantity: 0.1 mg

Concentration: 1.0 mg/ml (determined by Bradford assay)

Background: 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.

Uniprot ID: P09110

NCBI: NP_001598

GeneID: 30

Species: Human

Source: E. coli

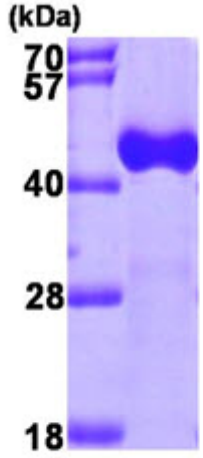
Format:
State: Liquid purified protein
Purity: >95% by SDS – PAGE
Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1 mM DTT, 0.1 M NaCl

Description: Recombinant human ACAA1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
AA 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 VEKLRLPPEK
VNPLGGAVAL GHPLGCTGAR QVITLLNELK RRGKRAYGVV SMCIGTGMGA AAVFEYPGN
Molecular weight: 43.8 kDa (419aa) confirmed by MALDI-TOF

Storage: Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

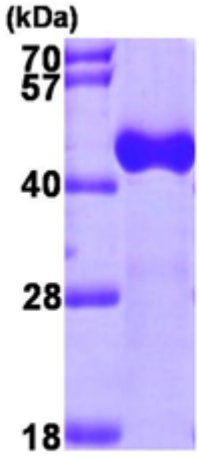
General Readings: Patel S., et al. (2003) Eur Respir J. 22(5):755-60.

Pictures:



15% SDS-PAGE (3ug)

Recombinant human ACAA1, 27-424 aa, His-tagged



15% SDS-PAGE (3ug)