

Recombinant human ACAT2 protein

Catalog Number: ATGP0634

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-397aa

UniProt No.

Q9BWD1

NCBI Accession No.

NP_005882

Alternative Names

Acetyl-CoA acetyltransferase cytosolic, ACTL, Acetyl-CoA acetyltransferase, cytosolic

PRODUCT SPECIFICATION

Molecular Weight

45.4 kDa (433aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

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

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

Description

ACAT2 is an enzyme involved in lipid metabolism. It participates in lipoprotein assembly, catalyzing cholesterol esterification in mammalian cells. ACAT2 is an integral membrane protein that localizes to the endoplasmic reticulum of human intestinal cells. ACAT2 deficiency contributes to severe mental retardation and hypotonus. Recombinant human ACAT2 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

MRGSHHHHHH GMASMTGGGQ MGRDLYDDDD KDRWGSMNAG SDPVVIVSAA RTIIGSFNGA LAAVPVQDLG
STVIKEVLKR ATVAPEDVSE VIFGHVLAAG CGQNPVRQAS VGAGIPYSVP AWSCQMICGS GLKAVCLAVQ SIGIGDSSIV
VAGGMENMSK APHLAYLRTG VKIGEMPLTD SILCDGLTDA FHNCHMGITA ENVAKKWQVS REDQDKVAVL SQNRTEAQQ
AGHFDKEIVP VLVSTRKGLI EVKTDEFPRH GSNIEAMSKL KPYFLTDGTG TVTPANASGI NDGAAAVVLM KKSEADKRGL
TPLARIVSWS QVGVEPSIMG IGPIPAIKQA VTKAGWSLED VDIFEINEAF AAVSAAIVKE LGLNPEKVNI EGGAIALGHP
LGASGCRILV TLLHTLERMG RSRGVAALCI GGGMGIAMCV QRE

General References

Alger HM., et al. (2010) J Biol Chem. 285(19):14267-74.
Bryleva EY., et al. (2010) Proc Natl Acad Sci U S A. 107(7):3081-6.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)