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Recombinant human ACAT1 protein

Catalog Number: ATGP1800

PRODUCT INFORMATION

Expression system
E.coli

Domain
34-427aa

UniProt No.
P24752

NCBI Accession No.
NP_000010

Alternative Names
acetyl-CoA acetyltransferase 1, ACAT, MAT, T2, THIL

PRODUCT SPECIFICATION

Molecular Weight
43.8 kDa (417aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 0.1M NaCl, 10% glycerol, 1mM DTT

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
ACAT1, also known as acetoacetyl-CoA thiolase, is an enzyme belongs to belongs to the membrane-bound acyltransferase family and Sterol o-acyltransferase subfamily. ACAT1 is an acetyl-CoA C-acetyltransferase enzyme. This enzyme catalyzes the reversible formation of acetoacetyl-CoA from two molecules of acetyl-CoA. It plays a role in lipoprotein assembly and dietary cholesterol absorption. In addition to its acyltransferase activity, it may act as a ligase. Recombinant human ACAT1 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

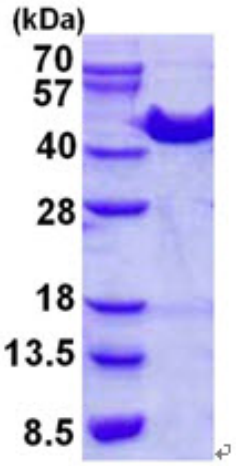
<MGSSHHHHHH SSGLVPRGSH MGS>VSKPTLK EVVIVSATRT PIGSFLGSLS LLPATKLGSI AIQGAIEKAG IPKEEVKEAY MGNVLQGGEG QAPTRQAVLG AGLPISTPCT TINKVCASGM KAIMMASQSL MCGHQDVMVA GGMESMSNVP YVMNRGSTPY GGVKLEDLIV KDGLTDVYNK IHMGSCAENT AKKLNIARNE QDAYAINSYT RSKAAWEAGK FGNEVIPVTV TVKGQPDVVV KEDEEYKRVD FSKVPKLKTV FQKENGTVTA ANASTLNDGA AALVLMTADA AKRLNVTPLA RIVAFADAAV EPIDFPIAPV YAASMVLKDV GLKKEDIAMW EVNEAFSLVV LANIKMLEID PQKVNINGGA VSLGHPIGMS GARIVGHLTH ALKQGEYGLA SICNGGGGAS AMLIQKL

General References

Haapalainen, A.M., et al. (2007) Biochemistry 46: 4305-4321.
Thompson, S.L. et al. (1990) J. Biol. Chem. 265:5731-5735.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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