

AR50624PU-N

Human ACAT1 / MAT (34-427, His-tag) - Purified

Alternate names:

Acetoacetyl-CoA thiolase T2, Acetyl-CoA acetyltransferase mitochondrial

Quantity:

0.5 mg

Concentration:

1 mg/ml (determined by Bradford assay)

Background:

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.

Uniprot ID:

[P24752](#)

NCBI:

[NP_000010](#)

GeneID:

[38](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >95% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 7.5) containing 0.1M NaCl, 10% glycerol, 1mM DTT

Description:

Recombinant human ACAT1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MGSSHHHHH SGLVPRGSH MGSVSKPTLK EVVIVSATRT PIGSFLGSLs LLPATKLGSI
AIQGAIEKAG IPKEEVKEAY MGNVLQGGEG QAPTRQAVLG AGLPISTPCT TINKVCASGM
KAIMMASQSL MCGHQDVMVA GGMESMSNVP YVMNRGSTPY GGVKLEDLIV KDGLTDVYNK
IHMGSCAENT AKKLNIAERNE QDAYAINSYT RSKAAWEAGK FGNEVIPVTV TVKGQPDVVV
KEDEEYKRVD FSKVPKLKT V FQKENGTVTA ANASTLNDGA AALVLMTADA AKRLNVTPLA
RIVAFADAAV EPIDFPIAPV YAASMLKDV GLKKEDIAMW EVNEAFSLVV LANIKMLEID
PQKVNINGGA VSLGHPIGMS GARIVGHLTH ALKQGEYGLA SICNGGGGAS AMLIQKL

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

Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

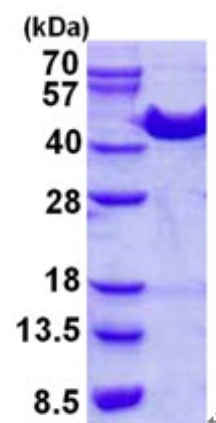
Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

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

Pictures:



15% SDS-PAGE (3ug)