

Product information



ACAT1, 34-427aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP1800

Full name: acetyl-CoA acetyltransferase 1

NCBI Accession No.: NP_000010

Synonyms: ACAT, MAT, T2, THIL

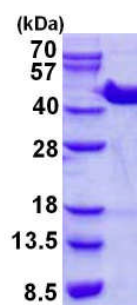
Description: ACAT1, also known as acetoacetyl-CoA thiolase, is an enzyme belongs to belongs to the membrane-bound acyltransferase family and Sterol o-acyltransferase subfamily. ACAT1 is an acetyl-CoA C-acetyltransferase enzyme. This enzyme catalyzes the reversible formation of acetoacetyl-CoA from two 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.

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

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

Purity: > 95% by SDS - PAGE

Concentration: 1 mg/ml (determined by Bradford assay)



15% SDS-PAGE (3ug)

Sequences of amino acids:

MGSSHHHHH SSGLVPRGSH MGSVSKPTLK EVIVSATRT PIGSFLGSL SLLPATKLSI AIQGAIEKAG IPKEEVKEAY MGNVLQGGEG
QAPTRQAVLG AGLPISTPCT TINKVCASGM KAIMMASQSL MCGHQDVMVA GGMESMSNVP YVMNRGSTPY GGVKLEDLIV KDGLTDVYNK
IHMGSCAENT AKKLNIAARNE QDAYAINSYT RSKAAWEAGK FGNEVIPVTV TVKGQPDVVV KEDEEYKRVD FSKVPLKKTV FQKENGTVTA
ANASTLNDGA AALVLMTADA AKRLNVTPLA RIVAFADA AV EPIDFPIAPV YAASMVLKDV GLKKEDIAMW EVNEAFSLVV LANIKMLEID
PQKVINNGGA VSLGHPIGMS GARIVGH LTH 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.

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.
Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



Manufactured for:

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