
Product Data Sheet

Product Name: ACAT1 Human

Cat. No.: GP21334

Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Acetyl-CoA acetyltransferase; mitochondrial; EC 2.3.1.9; Acetoacetyl-CoA thiolase; T2; ACAT1; ACAT; MAT; THIL.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSVSKPTLK EVVIVSATRT PIGSFLGSL LLPATKLGSI AIQGAIEKAG IPKEEVKEAY MGNVLQGGEG QAPTRQAVLG AGLPISTPCT TINKVCASGM KAIMMASQSL MCGHQDVMVA GGMESMSNVP YVMNRGSTPY GGVKLEDLIV KDGLTDVYNKIHMGSCAENT AKKLNIARNE QDAYAINSYT RSKAAWEAGK FGNEVIPVTV TVKGGQPDVVV KEDEEYKRVD FSKVPKLKT V FQKENGTVTA ANASTLNDGA AALVLMTADA AKRLNVTPLA RIVAFADAAV EPIDFPIAPV YAASMLKDV GLKKEDIAMW EVNEAFSLVV LANIKMLEIDPQKVNINGGA VSLGHPIGMS GARIVGHLTH ALKQGEYGLA SICNGGGGAS AMLIQKL.		
Formulation	The ACAT1 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 7.5), 0.1M NaCl, 10% glycerol and 1mM DTT.		

Introduction

Acetoacetyl-CoA thiolase (ACAT1) is an enzyme member of the membrane-bound acyltransferase family and Sterol o-acyltransferase subfamily. The ACAT1 enzyme catalyzes the reversible formation of acetoacetyl-CoA from 2 molecules of acetyl-CoA. ACAT1 plays a part in lipoprotein compilation and dietary cholesterol absorption. Added to its acyltransferase activity, ACAT1 acts as a ligase.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

Background

ACAT1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 417 amino acids (34-427) and having a molecular mass of 43.8 kDa. ACAT1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA