

Recombinant Full Length Human ACAT1 Protein, GST-tagged

Cat. No. ACAT1-913HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Human ACAT1 full-length ORF (AAH10942, 16 a.a. - 162 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	162 amino acids
Description	This gene encodes a mitochondrially localized enzyme that catalyzes the reversible formation of acetoacetyl-CoA from two molecules of acetyl-CoA. Defects in this gene are associated with 3-ketothiolase deficiency, an inborn error of isoleucine catabolism characterized by urinary excretion of 2-methyl-3-hydroxybutyric acid, 2-methylacetoacetic acid, tiglylglycine, and butanone. [provided by RefSeq, Feb 2009]
Molecular Mass	95.7 kDa
AA Sequence	MSGCGLFLRT TAAARACRGL VVSTANRRLL RTSPPVRAFA KELFLGKIKK KEVFPFPEVS QDELNEINQF LGPVEKFFTE EVDSRKIDQE GKIPDETLEK LKSLGLFGLQ VPEEYGGGLGF SNTMYSRLGE IISMDGSITV TLAHQAIQGL KGIIAGTEE QKAKYLPKLA SGEHIAAFCL TEPASGSDAA SIRSRATLSE DKKHYILNGS KVVITNGGLA NIFTVFAKTE VVSDDGSVKD KITAFIVERD FGGVTNGKPE DKLGIRGSNT CEVHFENTKI PVENILGEVG DGFKVAMNII NSGRFSMGSV VAGLLKRLIE MTAEYACTRK QFNKRLSEFG LIQEKFALMA QKAYVMESMT YLTAGMLDQP GFPDCSIEAA MVKVFSSIEA WQCVSEALQI

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

LGGLGYTRDY PYERILRDTR ILLIFEGTNE ILRMYIALTG LQHAGRILTT
 RIHELKQAKV STVMDTVGRR LRDSLGRDVD LGLTGNHGTV HPSLADSANK
 FEENTYCFGR TVETLLLRFG KTIMEEQLVL KRVANILINL YGMTAVLSRA
 SRSIRIGLRN HDHEVLLANT FCVEAYLQNL FSLSQLDKYA PENLDEQIKK
 VSQQILEKRA YICAHPLDRT C

Applications
 Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name [ACAT1 acetyl-CoA acetyltransferase 1 \[Homo sapiens \]](#)

Official Symbol [ACAT1](#)

Synonyms ACAT1; acetyl-CoA acetyltransferase 1; ACAT, acetyl Coenzyme A acetyltransferase 1; acetyl-CoA acetyltransferase, mitochondrial; acetoacetyl Coenzyme A thiolase; THIL; acetoacetyl-CoA thiolase; acetyl-Coenzyme A acetyltransferase 1; mitochondrial acetoacetyl-CoA thiolase; T2; MAT; ACAT

Gene ID [38](#)

mRNA Refseq [NM_000019](#)

Protein Refseq [NP_000010](#)

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MIM	607809
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UniProt ID	P24752
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