

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 TLAHQAIGL KGILAGTEE QKAKYLPKLA SGEHIAAFCL TEPASGSDAA SIRSRTLSE DKKHYILNGS KVVITNGGLA NIFTVFAKTE VVDSGDSVKD KITAFIVERD FGGVTNGKPE DKLGIRGSNT CEVHFENTKI PVENILGEVG DGFKVAMNIL NSGRFSMGSV VAGLLKRLIE MTAEYACTRK QFNKRLSEFG LIQEKFALMA QKAYVMESMT YLTAGMLDQP GFPDCSIEAA MVKVSSEAA WQCVSEALQI

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LGGLGYTRDY PYERILRDTR ILLIFEGTNE ILRMYIALTG LQHAGRILTT
RIHELKQAKV STVMDTVGRR LRDSLGRDVD LGLTGNHGVV 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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