

## Recombinant Human ACAT1, His-tagged

Cat. No. ACAT1-3045H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	ACAT1
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	427
<b>Description</b>	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]
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 7.5) containing 0.1M NaCl, 10% glycerol, 1mM DTT
<b>Molecular Mass</b>	43.8kDa (417aa) confirmed by MALDI-TOF
<b>Purity</b>	>95% by SDS - PAGE
<b>Applications</b>	SDS-PAGE
<b>Notes</b>	Small volumes of ACAT1 recombinant protein may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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

centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container's cap. Certain products may require to ship with dry ice.

**Storage**

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

**Warning**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

## 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](#)

**MIM**

[607809](#)

**UniProt ID**

[P24752](#)

**Chromosome**

11q22.3

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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



**Location**

**Pathway**

Branched-chain amino acid catabolism, organism-specific biosystem; Butanoate metabolism, organism-specific biosystem; Butanoate metabolism, conserved biosystem; C5 isoprenoid biosynthesis, mevalonate pathway, organism-specific biosystem; C5 isoprenoid bio

**Function**

acetyl-CoA C-acetyltransferase activity; coenzyme binding; enzyme binding; metal ion binding; protein homodimerization activity; transferase activity, transferring acyl groups other than amino-acyl groups;

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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