

Recombinant Human ACAT1, His-tagged

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

SPECIFICATION

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

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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

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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;

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