

## Active Recombinant Human ACAT1 Protein, His-tagged

Cat. No. ACAT1-01H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	E. coli-derived human ACAT1 protein Val34-Leu427 with an N-terminal Met and 6-His tag.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	Val34-Leu427
<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.
<b>Bio-activity</b>	Measured by its ability to convert acetoacetyl-CoA and CoA into acetyl-CoA. The specific activity is >15000 pmol/min/μg, as measured under the described conditions.
<b>Molecular Mass</b>	42 kDa
<b>N-terminal Sequence Analysis</b>	Met
<b>Endotoxin</b>	<0.10 EU per 1 μg of the protein by the LAL method.

 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

<b>Purity</b>	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70 °C as supplied. 3 months, -20 to -70 °C under sterile conditions after opening.
<b>Storage Buffer</b>	Supplied as a 0.2 µm filtered solution in Tris, NaCl, Glycerol and TCEP.
<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

## GENE INFORMATION

<b>Gene Name</b>	ACAT1 acetyl-CoA acetyltransferase 1 [ Homo sapiens (human) ]
<b>Official Symbol</b>	ACAT1
<b>Synonyms</b>	ACAT; ACAT1; acetoacetyl Coenzyme A thiolase; Acetoacetyl-CoA thiolase; acetyl-CoA acetyltransferase 1; acetyl-CoA acetyltransferase, mitochondrial; acetyl-Coenzyme A acetyltransferase 1; EC 2.3.1; EC 2.3.1.9; MAT; mitochondrial acetoacetyl-CoA thiolase; T2; THIL
<b>Gene ID</b>	38
<b>mRNA Refseq</b>	NM_000019.4
<b>Protein Refseq</b>	NP_000010.1
<b>MIM</b>	607809

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UniProt ID

P24752

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