

Active Recombinant Human ACAT1 Protein, His-tagged

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

SPECIFICATION

Product Overview	E. coli-derived human ACAT1 protein Val34-Leu427 with an N-terminal Met and 6-His tag.
Species	Human
Source	E.coli
ProteinLength	Val34-Leu427
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.
Bio-activity	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.
Molecular Mass	42 kDa
N-terminal Sequence Analysis	Met
Endotoxin	<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  Fax: 1-631-938-8127

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

Purity	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	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.
Storage Buffer	Supplied as a 0.2 µm filtered solution in Tris, NaCl, Glycerol and TCEP.
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

GENE INFORMATION

Gene Name	ACAT1 acetyl-CoA acetyltransferase 1 [Homo sapiens (human)]
Official Symbol	ACAT1
Synonyms	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
Gene ID	38
mRNA Refseq	NM_000019.4
Protein Refseq	NP_000010.1
MIM	607809

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UniProt ID

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