

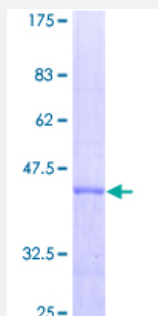
Full-Length

ACAT1 (Human) Recombinant Protein (P02)

Catalog # H00000038-P02

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human ACAT1 full-length ORF (AAH10942, 1 a.a. - 162 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MAVLPALLRSGARSRSPLLRRLVQEIRYVERSYVSKPTLKEVVV/SATRTPIGSFLGSLSLPATKL GSAIQGAIEKAGIPKEEVKEAYMGNVLQGGEGQAPTRQAVLGAGLPISTPCTTINKVCASGMKAIM MASQSLMCGHQIKQETGSLAKICCHVRR
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	43.45
Interspecies Antigen Sequence	Mouse (86); Rat (85)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — ACAT1

Entrez GeneID [38](#)

GeneBank Accession# [BC010942](#)

Protein Accession# [AAH10942](#)

Gene Name ACAT1

Gene Alias ACAT, MAT, T2, THIL

Gene Description acetyl-Coenzyme A acetyltransferase 1

Omim ID [203750 607809](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene encodes a mitochondrially localized enzyme that catalyzes the reversible formation of a cetoacetyl-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]

Other Designations acetoacetyl Coenzyme A thiolase

Pathway

- [Benzoate degradation via CoA ligation](#)

- [Butanoate metabolism](#)
- [Fatty acid metabolism](#)
- [Lysine degradation](#)
- [Metabolic pathways](#)
- [Propanoate metabolism](#)
- [Pyruvate metabolism](#)
- [Synthesis and degradation of ketone bodies](#)
- [Terpenoid backbone biosynthesis](#)
- [Tryptophan metabolism](#)
- [Valine](#)

Disease

- [Alzheimer disease](#)
- [Amino Acid Metabolism](#)
- [Atherosclerosis](#)
- [Cardiovascular Diseases](#)
- [Dementia](#)
- [Diabetes Complications](#)
- [Drug Toxicity](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hypercholesterolemia](#)
- [Hyperlipidemias](#)
- [Hypertriglyceridemia](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)

- [Osteoporosis](#)