

Recombinant Human ACAT2, T7-tagged

Cat. No. ACAT2-29H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Acetyl-Coenzyme A acetyltransferase 2 produced in <i>E. Coli</i> is a non-glycosylated, polypeptide chain containing amino acids 1-397 and having a total molecular mass of 41.3 kDa. ACAT2 contains T7 tag at N-terminus. ACAT-2 is purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
Protein Length	1-397 a.a.
Description	Acetyl-Coenzyme A acetyltransferase 2 is an enzyme involved in lipid metabolism. Reported patients with ACAT2 deficiency have shown severe mental retardation and hypotonus. The ACAT2 gene shows complementary overlapping with the 3 prime region of the TCP1 gene in both mouse and human. These genes are encoded on opposite strands of DNA, as well as in opposite transcriptional orientation.
Physical Appearance	Sterile Filtered clear solution (0.77 mg/ml).
Purity	Greater than 95.0% as determined by SDS-PAGE.
Formulation	Acetyl-CoA acetyltransferase cytosolic at a concentration of 0.1 mg/ml in 10 mM Tris, pH 8.0, 0.1% Triton X-100 and 0.002% Na ₃ N.
Applications	• ELISA • MS • Inhibition Assays • Western Blotting.

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Stability

ACAT2 although stable at 14°C for 1 week, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

GENE INFORMATION
Gene Name

ACAT2 acetyl-Coenzyme A acetyltransferase 2 [Homo sapiens]

Synonyms

ACAT2; acetyl-Coenzyme A acetyltransferase 2; Acetyl-CoA acetyltransferase, cytosolic; Cytosolic acetoacetyl-CoA thiolase; Acetyl-CoA transferase-like protein; EC 2.3.1.9; OTTHUMP00000017527; Cytosolic acetoacetyl-CoA thiolase; acetoacetyl Coenzyme A thiolase; acetyl-Coenzyme A acetyltransferase 2; acetyl-Coenzyme A acetyltransferase 2 (acetoacetyl Coenzyme A thiolase)

Gene ID

39

mRNA Refseq

NM_005891

Protein Refseq

NP_005882

UniProt ID

Q9BWD1

Chromosome Location

6q25.3

MIM

100678

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, leucine and isoleucine

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degradation

Function

acetyl-CoA C-acetyltransferase activity; acyltransferase activity; protein binding; transferase activity

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