

Recombinant Human ACAT2, His-tagged

Cat. No. ACAT2-776H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ACAT2 protein, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW =45.4 kDa (433aa) confirmed by MALDI-TOF.
Species	Human
Source	E.coli
Description	ACAT2 is an enzyme involved in lipid metabolism. It participates in lipoprotein assembly, catalyzing cholesterol esterification in mammalian cells. ACAT2 is an integral membrane protein that localizes to the endoplasmic reticulum of human intestinal cells. ACAT2 deficiency contributes to severe mental retardation and hypotonus.
Sequences Of Amino Acids	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMNAG SDPVVIVSAA RTIIGSFNGA LAAVPVQDLG STVIKEVLKR ATVAPEDVSE VIFGHVLAAG CGQNPVRQAS VGAGIPYSVP AWSCQMICGS GLKAVCLAVQ SIGIGDSSIV VAGGMENMSK APLAYLRTG VKIGEMPLTDSILCDGLTDA FHNCHMGITA ENVAKKWQVS REDQDKVAVL SQNRTEAQA AGHFDKEIVP VLVSTRKGLI EVKTDEFPRH GSNIEAMSKL KPYFLTDGTG TVTPANASGI NDGAAAVVLM KKSEADKRGL TPLARIVSWS QVGVEPSIMG IGPIPAIKQA VTKAGWSLED VDIFEINEAF AAVSAAIVKE LGLNPEKVNI EGGAIALGHP LGASGCRILV TLLHTLERMG RSRGVAALCI GGGMGIAMCV QRE

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Purity	> 95% by SDS – PAGE.
Form	Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 0.1M NaCl, 1mM DTT, 10% glycerol.
Concentration	1 mg/ml (determined by Bradford assay).
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	ACAT2 acetyl-CoA acetyltransferase 2 [Homo sapiens]
Synonyms	ACAT2; acetyl-CoA acetyltransferase 2; 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
MIM	100678
UniProt ID	Q9BWD1

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Chromosome Location	6q25.3
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 degradation
Function	acetyl-CoA C-acetyltransferase activity; acyltransferase activity; protein binding; transferase activity

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