Recombinant Full Length Human ACAT2 Protein, C-Flag-tagged

Cat. No. ACAT2-1055HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human ACAT2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	The product of this gene is an enzyme involved in lipid metabolism, and it encodes cytosolic acetoacetyl-CoA thiolase. This 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. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	41.2 kDa
AA Sequence	MNAGSDPVVIVSAARTIIGSFNGALAAVPVQDLGSTVIKEVLKRATVAPEDVSEVIFG HVLAAGCGQNPV RQASVGAGIPYSVPAWSCQMICGSGLKAVCLAVQSIGIGDSSIV VAGGMENMSKAPHLAYLRTGVKIGEM PLTDSILCDGLTDAFHNCHMGITAENVAKK WQVSREDQDKVAVLSQNRTENAQKAGHFDKEIVPVLVSTR RGLIEVKTDEFPRHGS NIEAMSKLKPYFLTDGTGTVTPANASGINDGAAAVVLMKKSEADKRGLTPLARI VSW SQVGVEPSIMGIGPIPAIKQAVTKAGWSLEDVDIFEINEAFAAVSAAIVKELGLNPEKV

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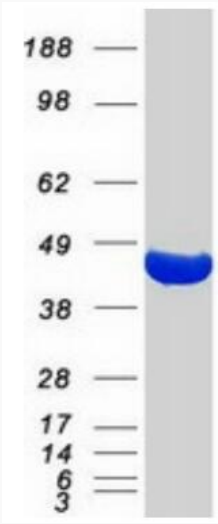
	NIEGGAIA LGHPLGASGCRILVTLLHTLERMGRSRGVAALCIGGGMGIAMCVQRETRTRPLEQKL ISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	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
Full Length	Full L.

GENE INFORMATION

Gene Name	ACAT2 acetyl-CoA acetyltransferase 2 [Homo sapiens (human)]
Official Symbol	ACAT2

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Synonyms	acetoacetyl Coenzyme A thiolase; acetyl-Coenzyme A acetyltransferase 2; cytosolic acetoacetyl-CoA thiolase; OTTHUMP00000017527
Gene ID	39
mRNA Refseq	NM_005891.3
Protein Refseq	NP_005882.2
MIM	100678
UniProt ID	Q9BWD1



Coomassie blue staining of purified ACAT2 protein.

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