

ACAT2 Protein, Human (Trx-His)

Cat. No.:	HY-P71041
Synonyms:	Acetyl-CoA acetyltransferase cytosolic; Acetyl-CoA transferase-like protein; Cytosolic acetoacetyl-CoA thiolase; ACTL; ACAT2
Species:	Human
Source:	E. coli
Accession:	Q9BWD1 (M1-E397)
Gene ID:	39
Molecular Weight:	Approximately 60.0 kDa

PROPERTIES

AA Sequence	<pre> MNAGSDPVVI VSAARTIIGS FNGALAAVPV QDLGSTVIKE VLKRATVAPE DVSEVIFGHV LAAGCGQNPV RQASVGAGIP YSVPAWSCQM ICGSGLKAVC LAVQSIGIGD SSIVVAGGME NMSKAPHLAY LRTGVKIGEM PLTDSILCDG LTDAFHNCHM GITAENVAKK WQVSREDQDK VAVLSQNRTE NAQKAGHFDK EIVPVLVSTR KGLIEVKTDE FPRHGSNIEA MSKCLKPYFLT DGTGTVTPAN ASGINDGAAA VVLMKKSEAD KRGLTPLARI VSWSQVGVPE SIMGIGPIPA IKQAVTKAGW SLEDVDIFEI NEAFAAVSAA IVKELGLNPE KVNIEGGAIA LGHPLGASGC RILVTL LHTL ERMGRSRGVA ALCIGGGMGI AMC VQRE </pre>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM Tris-HCl, 100 mM NaCl, 1 mM DTT, 10% Glycerol, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	ACAT2 is the major ACAT enzyme in human hepatocytes. Currently, two ACAT isozymes, ACAT1 and ACAT2, have been
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identified in humans and in animals. ACAT2 expression predominantly in the liver and intestine. ACAT2 is the major isoenzyme in monkey and mouse hepatocytes. ACAT1 is the major isoform in human hepatocytes. ACAT2 is identified as an important regulator of susceptibility to the development of atherosclerosis. Studies in mouse models of atherosclerosis showed reduced amounts of atherosclerosis when ACAT2 was deficient^{[1][2]}.

REFERENCES

[1]. Parini P, et, al. ACAT2 is localized to hepatocytes and is the major cholesterol-esterifying enzyme in human liver. *Circulation*. 2004 Oct 5;110(14):2017-23.

[2]. Sakashita N, et, al. Acyl-coenzyme A:cholesterol acyltransferase 2 (ACAT2) is induced in monocyte-derived macrophages: in vivo and in vitro studies. *Lab Invest*. 2003 Nov;83(11):1569-81.

Caution: Product has not been fully validated for medical applications. For research use only.

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