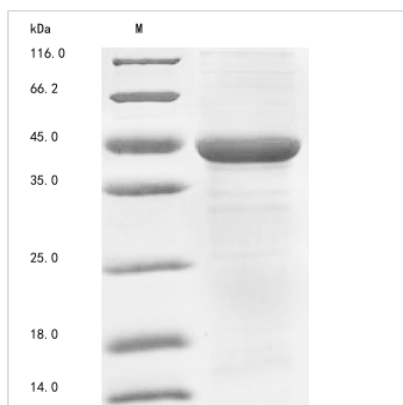




Recombinant Human Acetyl-CoA acetyltransferase, mitochondrial (ACAT1)

Product Code	CSB-EP001134HU
Abbreviation	Recombinant Human ACAT1 protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P24752
Storage Buffer	Tris-based buffer, 50% glycerol
Product Type	Recombinant Proteins
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	VSKPTLKEVVIVSATRTPIGSFLGSLSLLPATKLGSIAIQGAIEKAGIPKEEVKEAY MGNVLQGGEGQAPTRQAVLGAGLPSTPCTTINKVCASGMKAIMMASQSLMC GHQDVMVAGGMESMSNPYVMNRGSTPYGGVKLEDLIVKDGLTDVYNKIHM GSCAENTAKKLNARNEQDAYAINSYTRSKAAWEAGKFGNEVIPVTVTVKGQP DVVVKEDEEYKRVDFSKVPKLKTVFQKENGTVTAANASTLNDGAAALVLMTAD AAKRLNVTPLARIVAFADAAVEPIDFPIAPVYAASMVLKDVGLKKEDIAMWEVN EAFSLVLANIKMLEIDPQKVNINGGAVSLGHPIGMSGARIVGHLTHALKQGEY GLASICNGGGGASAMLIQKL
Research Area	Metabolism
Source	E.coli
Target Names	ACAT1
Protein Names	Recommended name: Acetyl-CoA acetyltransferase, mitochondrial EC= 2.3.1.9 Alternative name(s): Acetoacetyl-CoA thiolase T2
Expression Region	34-427aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged
Mol. Weight	45.0kDa
Protein Length	Full Length of Mature Protein
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

The expression region of this recombinant Human ACAT1 covers amino acids 34-427. The calculated molecular weight for this ACAT1 protein is 45.0kDa. The ACAT1 protein was expressed in e.coli. The N-terminal 10xHis tag was fused into the coding gene segment of ACAT1, making it easier to detect and purify the ACAT1 recombinant protein in the later stages of expression and purification.

Acetyl-CoA acetyltransferase, mitochondrial (ACAT1) is a mitochondrial protein primarily associated with lipid metabolism and energy regulation. In lipid metabolism, ACAT1 serves as a crucial enzyme in the acetyl-coenzyme A metabolic pathway, catalyzing the transfer of acetyl-coenzyme A and participating in cholesterol synthesis and ketone body generation. This positions ACAT1 to play a vital role in regulating cholesterol levels and maintaining energy balance. Recent research indicates that ACAT1 is also associated with various diseases such as metabolic disorders and neurological conditions, sparking widespread interest among scientists.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.