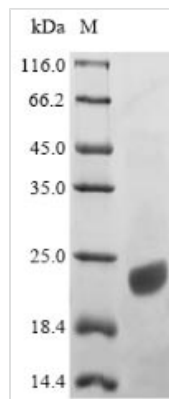




# Recombinant Human Apolipoprotein C-III (APOC3)

<b>Product Code</b>	CSB-EP001933HU
<b>Relevance</b>	Component of triglyceride-rich very low density lipoproteins (VLDL) and high density lipoproteins (HDL) in plasma. Plays a multifaceted role in triglyceride homeostasis. Intracellularly, promotes hepatic very low density lipoprotein 1 (VLDL1) assembly and secretion; Extracellular domainly, attenuates hydrolysis and clearance of triglyceride-rich lipoproteins (TRLs). Impairs the lipolysis of TRLs by inhibiting lipoprotein lipase and the hepatic uptake of TRLs by mannose receptors.
<b>Abbreviation</b>	Recombinant Human APOC3 protein
<b>Storage</b>	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.
<b>Uniprot No.</b>	P02656
<b>Alias</b>	Apolipoprotein C3
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	SEAEDASLLSFMQGYMKHATKTAKDALSSVQESQVAQQARGWVTDGFSSLK DYWSTVKDKFSEFWDLDPVRPTSAVAA
<b>Research Area</b>	Metabolism
<b>Source</b>	E.coli
<b>Target Names</b>	APOC3
<b>Expression Region</b>	21-99aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 6xHis-SUMO-tagged
<b>Mol. Weight</b>	24.8kDa
<b>Protein Length</b>	Full Length of Mature Protein
<b>Image</b>	



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

## Description

The N-terminal 6xHis-SUMO tag was fused to the gene fragment corresponding to the 21-99aa of the human APOC3 protein and then was cloned into an expression vector. The expression vector was transformed into the E.coli for expression. The generated product was purified and separated to obtain the recombinant human APOC3 protein. Its purity is higher than 90%. This recombinant human APOC3 protein showed an apparent molecular weight of about 23 kDa under SDS-PAGE condition.

APOC3 is a gene encoding a protein named Apolipoprotein C-III and belongs apolipoprotein C3 family. This protein is secreted by the liver as well as the small intestine, and is a protein component of triglyceride (TG)-rich lipoproteins (TRLs) including very low density lipoproteins (VLDL), high density lipoproteins (HDL) and chylomicrons. it plays a role in the metabolism of these TRLs through multiple modes. Diseases associated with APOC3 include Apolipoprotein C-III Deficiency and Hyperalphalipoproteinemia. Additionally, APOC3 is a novel inducer of calcification in human aortic valves. Higher ANGPTL3, apoC-III, and apoB48 dyslipidemia, and lower lipoprotein lipase concentrations are associated with dysfunctional visceral fat in adolescents with obesity.

## Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

## Shelf Life

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