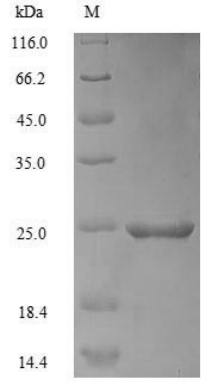
Recombinant Mouse Apolipoprotein C-III (Apoc3)

Product Code	CSB-EP001933MO
Relevance	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) assbly 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 rnant receptors.
Abbreviation	Recombinant Mouse Apoc3 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.	P33622
Alias	Apolipoprotein C3
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	EEVEGSLLLGSVQGYMEQASKTVQDALSSVQESDIAVVARGWMDNHFRFLKGYWSKFTDKFTGFWDSNPEDQPTPAIES
Research Area	Others
Source	E.coli
Target Names	Apoc3
Expression Region	21-99aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	24.9kDa
Protein Length	Full Length of Mature Protein
Image	



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

Description

Amino acids 21-99 constitute the expression domain of recombinant Mouse Apoc3. The expected molecular weight for the Apoc3 protein is calculated to be 24.9 kDa. This Apoc3 protein is produced using e.coli expression system. The N-terminal 6xHis-SUMO tag was fused into the coding gene segment of Apoc3, making it easier to detect and purify the Apoc3 recombinant protein in the later stages of expression and purification.

Apolipoprotein C-III (ApoC3) is a crucial protein involved in lipid metabolism, and its research covers various fields. In lipid metabolism studies, ApoC3 is extensively examined for its regulatory role in cholesterol and triglyceride metabolism. Particularly, ApoC3 is considered a significant factor in lipid disorders and cardiovascular diseases, drawing attention for its association with conditions like hypercholesterolemia and atherosclerosis. Recent studies also indicate that ApoC3 plays a critical role in metabolic diseases such as diabetes and non-alcoholic fatty liver disease. Furthermore, the link between ApoC3 and metabolic disturbances like obesity and insulin resistance has become a hot topic of research.

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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