Apolipoprotein C-III/APOC3 Protein, Mouse (His-SUMO)

Cat. No.:	HY-P72082
Synonyms:	Apoc3Apolipoprotein C-III; Apo-CIII; ApoC-III; Apolipoprotein C3
Species:	Mouse
Source:	E. coli
Accession:	P33622 (E21-S99)
Gene ID:	11814
Molecular Weight:	Approximately 22 kDa

PROPERTIES

AA Sequence	E E V E G S L L L G S V Q G Y M E Q A S K T V Q D A L S S V Q E S D I A V V A R G W M D N H F R F L K G Y W S K F T D K F T G F W D S N P E D Q P T P A I E S
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm solution of 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Apolipoprotein C-III (APOC3) protein is a vital component of both triglyceride-rich very low-density lipoproteins (VLDL) and high-density lipoproteins (HDL) in plasma, playing a multifaceted role in triglyceride homeostasis. Intracellularly, APOC3 facilitates the assembly and secretion of hepatic very low-density lipoprotein 1 (VLDL1), contributing to lipid transport. Extracellularly, it serves to modulate the hydrolysis and clearance of triglyceride-rich lipoproteins (TRLs), impairing their lipolysis by inhibiting lipoprotein lipase and impeding their hepatic uptake through remnant receptors. Structurally, APOC3 is characterized by several curved helices connected via semiflexible hinges, allowing it to wrap tightly around the curved micelle surface and adapt easily to the different diameters of its natural binding partners. This structural flexibility underscores its versatile involvement in lipid metabolism and transport processes.

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

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