

## APOC3 Protein, Human (His-SUMO)

<b>Cat. No.:</b>	HY-P72081
<b>Synonyms:</b>	APOC3; APO C3; Apo CIII; Apo-CIII; APOC 3; ApoC III; ApoC-III; APOC3; APOC3_HUMAN; ApoCIII; Apolipoprotein C III; Apolipoprotein C-III; Apolipoprotein C3; ApolipoproteinCIII; MGC150353
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Accession:</b>	P02656 (S21-A99)
<b>Gene ID:</b>	345
<b>Molecular Weight:</b>	Approximately 24.8 kDa

### PROPERTIES

<b>AA Sequence</b>	S E A E D A S L L S    F M Q G Y M K H A T    K T A K D A L S S V    Q E S Q V A Q Q A R G W V T D G F S S L    K D Y W S T V K D K    F S E F W D L D P E    V R P T S A V A A
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm solution of 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	<p>APOC3 protein, a constituent of both triglyceride-rich very low-density lipoproteins (VLDL) and high-density lipoproteins (HDL) in plasma, plays a multifaceted role in triglyceride homeostasis. Intracellularly, it facilitates the assembly and secretion of hepatic very low-density lipoprotein 1 (VLDL1), contributing to lipid transport. Extracellularly, APOC3 serves to modulate the hydrolysis and clearance of triglyceride-rich lipoproteins (TRLs). This functionality involves inhibiting lipoprotein lipase and impeding the hepatic uptake of TRLs through remnant receptors. Structurally, APOC3 is characterized by several curved helices connected via semiflexible hinges, allowing it to tightly wrap around the curved micelle surface and adapt to the varying diameters of its natural binding partners. This structural flexibility underscores its versatile involvement in lipid metabolism and transport processes.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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