

For Research Use Only

Recombinant Human Apolipoprotein CIII protein (rFc Tag)



Catalog Number: Eg3387

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/ μ g protein, LAL method

Source:
HEK293-derived Human Apolipoprotein CIII protein Ser21-Ala99 (Accession# P02656) with a rabbit IgG Fc tag at the N-terminus.

GeneID:
345

Accession:
P02656

Predicted Molecular Mass:
35.6 kDa

SDS-PAGE:
34-40 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Apolipoprotein CIII is a small secreted protein encoded by the APOC3 gene, primarily synthesized and secreted into the plasma by the liver. It is a component of lipoprotein particles such as high-density lipoprotein and very-low-density lipoprotein. Its main physiological function is to regulate lipid metabolism by inhibiting the activity of lipoprotein lipase and interfering with hepatic uptake of triglyceride-rich lipoproteins, thereby delaying the clearance of plasma triglycerides. Research indicates that elevated APOCIII levels are an independent risk factor for severe hypertriglyceridemia, insulin resistance, and atherosclerosis, and are closely associated with cardiovascular events. Consequently, APOCIII has become a critical therapeutic target for managing metabolic syndrome and cardiovascular diseases, with targeted drugs such as the antisense oligonucleotide Volanesorsen already in clinical use.

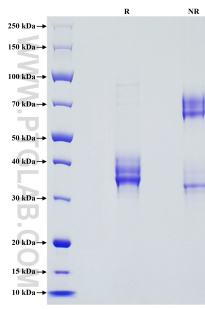
References

1. Christopoulou, Eliza et al. Diabetes/metabolism research and reviews vol. 35,3 (2019): e3118.
2. Valladolid-Acebes, Ismael et al. International journal of molecular sciences vol. 22,2 (2021): 932.
3. Naber, Annemieke et al. International journal of molecular sciences vol. 24,19 (2023): 14844.
4. Gouni-Berthold, Ioanna. Atherosclerosis. Supplements vol. 30 (2017): 19-27.

Synonyms

APOC3, Apo CIII, ApoC III, APOCIII, Apo-CIII

Selected Validation Data



Purity of Recombinant Apolipoprotein CIII was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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