

Recombinant Bovine Apolipoprotein A-IV (APOA4)

Cat. No.: AP9C448

Product Type: Animal Proteins

Size: 10 µg; 50 µg; 200 µg; 1 mg; 5 mg

Product Overview

BioVenic's Recombinant Bovine Apolipoprotein A-IV (APOA4) is a recombinant protein expressed from *E.coli*. Its predicted molecular weight is 44.9 kDa. The purity is >95% (SDS-PAGE).

Specifications

Type	Recombinant Protein
Species	Bovine
Expression System	<i>E.coli</i>
Purity	>95% (SDS-PAGE)
Endotoxin	< 1 EU/µg
Predicted Molecular Weight	44.9 kDa
Physical State	Lyophilized
Formulation	The buffer before lyophilization is PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin301.

Target Information

Bovine apolipoprotein A-IV (ApoA-IV) is a protein that is primarily synthesized in the small intestine and is associated with the packaging of chylomicrons during fat absorption, being secreted into the intestinal lymph. In circulation, ApoA-IV is found on chylomicron remnants, high-density lipoproteins (HDL), and also exists in a lipid-free form. It plays a role in lipid absorption and metabolism, anti-atherosclerotic effects, platelet aggregation, and thrombosis, as well as glucose homeostasis and food intake. Deficiency in ApoA-IV is associated with atherosclerosis and diabetes, making it a potential therapeutic target for these diseases. Although much is known about the physiological functions of ApoA-IV from rodent models, the cellular and molecular mechanisms of ApoA-IV, and its interacting partners, are less understood.

Protein	Bovine Apolipoprotein A-IV (APOA4)
Protein Synonym	ApoA-IV; ApoAIV; Apo-A4
Gene ID	537301

Shipping and Storage

This product is shipped with dry ice. It is recommended to aliquot as needed and store at -80°C upon receipt. Reconstituted protein solution can be stored at 4°C for 1 week, at < -80°C for 12 months. Avoid repeated freezing and thawing.

User Note

Always centrifuge tubes before opening. Avoid mixing by vortexing or pipetting. Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Aliquot the reconstituted solution to minimise freeze-thaw cycles.

The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.