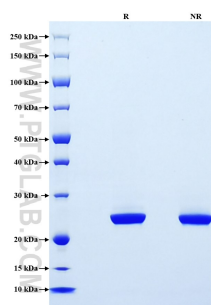


Recombinant Human Apolipoprotein AI protein (His Tag)

Catalog Number: Eg0723

Basic Information	Species: Human	Purity: >90 %, SDS-PAGE	Tag: His Tag
Technical Specifications	Purity: >90 %, SDS-PAGE Endotoxin Level: <0.1 EU/ μg protein, LAL method Source: HEK293-derived Human Apolipoprotein AI protein Asp25-Gln267 (Accession# P02647) with a His tag at the N-terminus. GeneID: 335 Accession: P02647 Predicted Molecular Mass: 29.2 kDa SDS-PAGE: 23-26 kDa, reducing (R) conditions Formulation: Lyophilized from 0.22 μm 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 AI (ApoA-I) is a member of blood apolipoproteins, it is the main component of High density lipoprotein (HDL). ApoA-I undergoes a series of complex processes from its generation to its composition as spherical HDL. It not only has a cholesterol reversal transport function, but also has a function in modulating the inflammatory response. The inverse relationship between high density lipoprotein (HDL) plasma levels and coronary heart disease has been attributed to the role that HDL and its major constituent, apolipoprotein A-I (apoA-I), play in reverse cholesterol transport (RCT). The efficiency of RCT depends on the specific ability of apoA-I to promote cellular cholesterol efflux, bind lipids, activate lecithin:cholesterol acyltransferase (LCAT), and form mature HDL that interact with specific receptors and lipid transfer proteins.		
References	1. Tao, Xia et al. (2024) Front Immunol.15:1417270. 2. Rosales, Corina et al. (2015) Biochemistry.54(14):2295-2302. 3. Frank, P G, and Y L Marcel. (2000) Biochemistry.41(6):853-872.		
Synonyms	APOA1, apolipoprotein A I, APOA 1, ApoA I, ApoAI		

Selected Validation Data



Purity of Recombinant Human Apolipoprotein AI 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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