

For Research Use Only

# Recombinant Human Apolipoprotein AI protein (His Tag)



Catalog Number: Eg0723

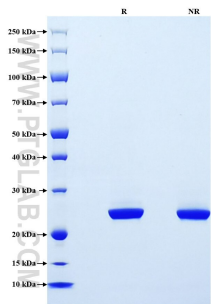
|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                            |                 |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------|
| Basic Information        | Species:<br>Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Purity:<br>>90 %, SDS-PAGE | Tag:<br>His Tag |
| Technical Specifications | <p><b>Purity:</b><br/>&gt;90 %, SDS-PAGE</p> <p><b>Endotoxin Level:</b><br/>&lt;0.1 EU/μg protein, LAL method</p> <p><b>Source:</b><br/>HEK293-derived Human Apolipoprotein AI protein Asp25-Gln267 (Accession# P02647) with a His tag at the N-terminus.</p> <p><b>GeneID:</b><br/>335</p> <p><b>Accession:</b><br/>P02647</p> <p><b>Predicted Molecular Mass:</b><br/>29.2 kDa</p> <p><b>SDS-PAGE:</b><br/>23-26 kDa, reducing (R) conditions</p> <p><b>Formulation:</b><br/>Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.</p>                                                                                                                                                                                                                                                              |                            |                 |
| Biological Activity      | Not tested                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                            |                 |
| Storage and Shipping     | <p><b>Storage:</b><br/>It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"><li>• Until expiry date, -20°C to -80°C as lyophilized proteins.</li><li>• 3 months, -20°C to -80°C under sterile conditions after reconstitution.</li></ul> <p><b>Shipping:</b><br/>The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.</p>                                                                                                                                                                                                                                                                                                                                                                                                                  |                            |                 |
| Reconstitution           | Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                 |
| Background               | <p>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.</p> |                            |                 |
| References               | <ol style="list-style-type: none"><li>1. Tao, Xia et al. (2024) Front Immunol.15:1417270.</li><li>2. Rosales, Corina et al. (2015) Biochemistry.54(14):2295-2302.</li><li>3. Frank, P G, and Y L Marcel. (2000) Biochemistry.41(6):853-872.</li></ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            |                 |
| Synonyms                 | APOA1, apolipoprotein A I, APOA 1, ApoA I, ApoAI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                            |                 |

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

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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.