# Recombinant Human Apolipoprotein A-I/ApoAI Protein (His Tag, E. coli)

**Catalog Number:PKSH032081**

***Note:*** Centrifuge before opening to ensure complete recovery of vial contents.

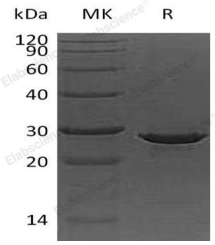
## Description

| | |
|---|---|
| **Synonyms** | Apolipoprotein A-I;Apo-AI;ApoA-I;Apolipoprotein A1;APOA1 |
| **Species** | Human |
| **Expression Host** | E.coli |
| **Sequence** | Arg19-Gln267 |
| **Accession** | P02647 |
| **Calculated Molecular Weight** | 30.2 kDa |
| **Observed molecular weight** | 28 kDa |
| **Tag** | C-His |

## Properties

| | |
|---|---|
| **Purity** | > 95 % as determined by reducing SDS-PAGE. |
| **Endotoxin** | < 1.0 EU per μg of the protein as determined by the LAL method. |
| **Storage** | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months. |
| **Shipping** | This product is provided as lyophilized powder which is shipped with ice packs. |
| **Formulation** | Lyophilized from a 0.2 μm filtered solution of 20mM PB, 6% Sucrose, 4% Mannitol, 50mM Nacl, 0.05% Tween 80, pH7.4.<br>Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.<br>Please refer to the specifi |
| **Reconstitution** | Please refer to the printed manual for detailed information. |

## Data




> 95 % as determined by reducing SDS-PAGE.

## Background

Apolipoprotein A1 (APOA1) is a secreted protein which belongs to the Apolipoprotein A1/A4/E family. APOA1 is the major protein component of high density lipoprotein (HDL) in plasma. APOA1 plays a critical role in various biological processes; such as Cholesterol metabolism; Lipid metabolism and transport; Steroid metabolism. APOA1 promotes cholesterol efflux from tissues to the liver and thus helps to clear cholesterol from arteries. Defects in this gene resulted in HDL deficiencies; including Tangier disease (TGD); systemic non-neuropathic amyloidosis; premature coronary artery disease; hepatosplenomegaly and progressive muscle wasting and weakness. In addition; ApoA-I is implicated in the anti-endotoxin function of HDL via interaction with lipopolysaccharide or endotoxin.

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