

## Recombinant Human Apolipoprotein A-I/ApoAI Protein (His Tag)

**Catalog No.** PKSH031486

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

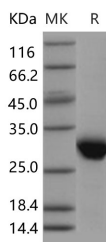
### Description

<b>Synonyms</b>	Apolipoprotein A-I;Apo-AI;ApoA-I;Apolipoprotein A1;APOA1
<b>Species</b>	Human
<b>Expression Host</b>	E.coli
<b>Sequence</b>	Asp25-Gln267
<b>Accession</b>	P02647
<b>Calculated Molecular Weight</b>	30.7 kDa
<b>Observed molecular weight</b>	27-31 kDa
<b>Tag</b>	N-His
<b>Bioactivity</b>	Not validated for activity

### Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	Please contact us for more information.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile PBS, 10% Glycerol, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

### Data



> 95 % as determined by reducing SDS-PAGE.

### Background

Apolipoprotein A1 (APOA1) is a member of the apolipoprotein family whose members are proteins bind with lipids and form lipoproteins to transport these oil-soluble lipids such as fat and cholesterol through lymphatic and circulatory system.

### For Research Use Only

APOA1 is the main component of high density lipoprotein (HDL) in plasma and is involved in the esterification of cholesterol as a cofactor of lecithin-cholesterol acyltransferase (LCAT) which is responsible for the formation of most plasma cholesteryl esters; and thus play a major role in cholesterol efflux from peripheral cells. As a major component of the HDL complex; APOA1 helps to clear cholesterol from arteries. APOA1 is also characterized as a prostacyclin stabilizing factor; and thus may have an anticlotting effect. Defects in encoding gene may result in HDL deficiencies; including Tangier disease; and with systemic non-neuropathic amyloidosis. Men carrying a mutation may develop premature coronary artery disease.