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

Catalog No. PKSH032081

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

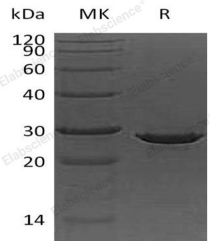
Description

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
Bioactivity	Not validated for activity

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. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



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Background

Apolipoprotein A1 (APOA1) is a secreted protein which belongs to the Apolipoprotein A1/A4/E family. APOA1 is the

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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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