

Recombinant Mouse Apolipoprotein A-I/APOA1 Protein

Catalog No.: RP01463

Sequence Information

Species **Gene ID**
Mouse 11806

Swiss Prot **Tags**
Q00623 C-hFc

Synonyms

Sep2, Alp-1, Ltw-1, Sep-1, Sep-2, ApoA-1, Brp-14, Lvtw-1, apo-AI, apoA-I, APOA1

Product Information

Source **Purification**
HEK293 cells ≥ 95 % as determined by SDS-PAGE.

Calculated MW **Observed MW**
53.91 kDa 60-65 kDa

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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. 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.

Basic Information

Description

Recombinant Mouse Apolipoprotein A-I/APOA1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Asp25-Gln264) of mouse ApoA-I/APOA1 (Accession #NP_033822.2) fused with a hFc tag at the C-terminus.

Activity

Measured by its binding ability in a functional ELISA. Immobilized Mouse A-I/APOA1 at 5 μg/mL (100 μL/well) can bind Human MSR1/CD204 with a linear range of 1-21.4 ng/mL.

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

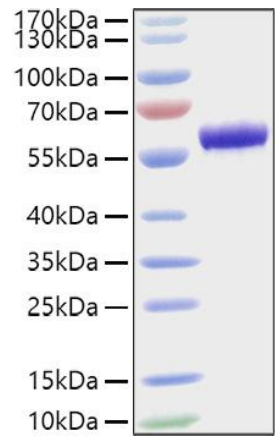
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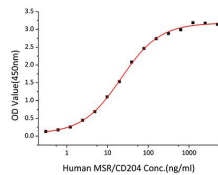
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Validation Data



Recombinant Mouse Apolipoprotein A-I/APOA1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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