

Recombinant Mouse Apolipoprotein A-I/APOA1 Protein

Catalog No.: RP01463 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	11806	Q00623

Tags

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% 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.

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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.

Bio-Activity

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

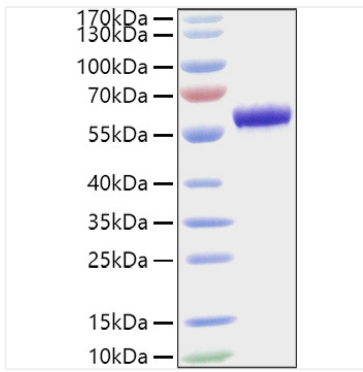
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

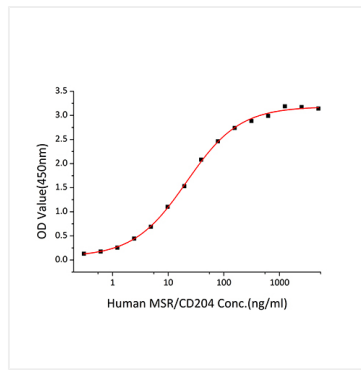
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Mouse Apolipoprotein A-I/APOA1 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 60-65kDa.



Immobilized Mouse A-I/APOA1 at 5 μ g/mL (100 μ L/well) can bind Human MSR1/CD204 with a linear range of 1-21.4ng/mL.