

Recombinant Human Apolipoprotein A-I/APOA1 Protein

Catalog No.: RP00047

Sequence Information

Species	Gene ID
Human	335
Swiss Prot	Tags
P02647	No tag

Synonyms

apo(a),APOA1

Product Information

Source	Purification
<i>E. coli</i>	≥ 95 % as determined by SDS-PAGE.

Calculated MW Observed MW

28.28 kDa 25-30 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. Contact us for customized product form or formulation.

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

This protein is the major protein component of high density lipoprotein (HDL) in plasma. The preprotein is proteolytically processed to generate the mature protein, which promotes cholesterol efflux from tissues to the liver for excretion, and is a cofactor for lecithin cholesterol acyltransferase (LCAT), an enzyme responsible for the formation of most plasma cholesteryl esters.

Basic Information

Description

Recombinant Human Apolipoprotein A-I/APOA1 Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Asp25-Gln267) of human Apolipoprotein A-I (Accession #NP_000030.1).

Activity

Measured by its binding ability in a functional ELISA. Immobilized Human A-I/APOA1 (Cat: RP00047) at 5 μg/mL (100 μL/well) can bind Human MSR1/CD204 (Cat: RP01033) with a linear range of 1-49.4 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.

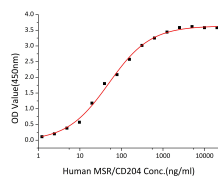
Contact

☎ | 400-999-6126

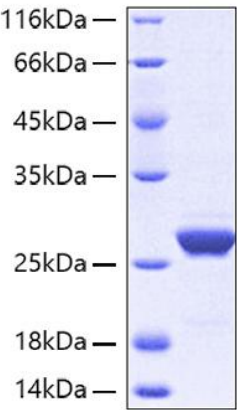
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Validation Data



Measured by its binding ability in a functional ELISA. Immobilized Human A-I/APOA1 (Cat: RP00047) at 5µg/mL (100 µL/well) can bind Human MSR1/CD204(Cat: RP01033) with a linear range of 1–49.4ng/mL.



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