

RP00468

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Recombinant Human FcRn/FCGRT&B2M Protein

Catalog No.: RP00468

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
HEK293 cells	2217	P55899-1(FCGRT)&P61769-1(B2M)

Tags

C-His

Synonyms

FcRn alpha chain; FCGRT; FCRN; FCGRT&B2M

Product Information

Source

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.

Purification

≥ 95 % as determined by SDS-PAGE; ≥ 95 % as determined by HPLC.

Endotoxin

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

Formulation

Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Reconstitution

Background

The neonatal Fc receptor (FCRN) is an approximately 45 kDa transmembrane glycoprotein with structural homology to MHC class I proteins. It is widely expressed in endothelial and epithelial cells and plays an important role in IgG homeostasis and antigen presentation by dendritic cells. FCGRT & B2M heterodimer protein (FcRn complex) consist of two subunits: p51, and p14, and forms an MHC class I-like heterodimer.

Basic Information

Description

Recombinant Human FcRn/FCGRT&B2M Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ala24-Ser297)&(Ile21-Met119) of Human FcRn/FCGRT&B2M (Accession #P55899-1&P61769-1) fused with a C-His tag at the C-terminus.

Bio-Activity

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.

Operational Notes

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

Storage

Store at -20°C. Avoid repeated freeze/thaw cycles.

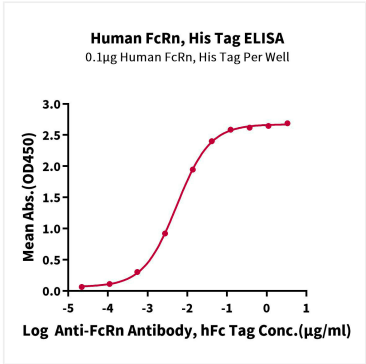
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Contact

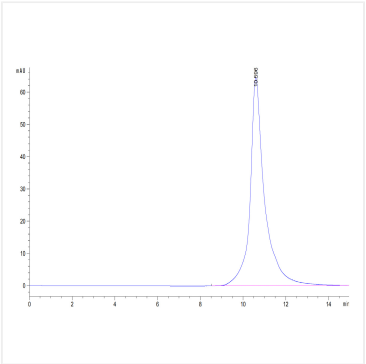


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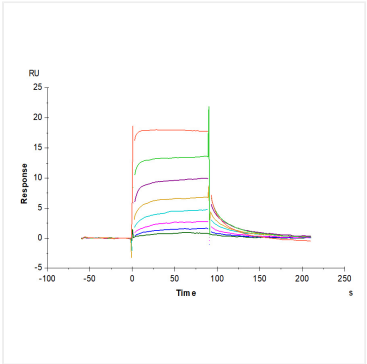
Validation Data



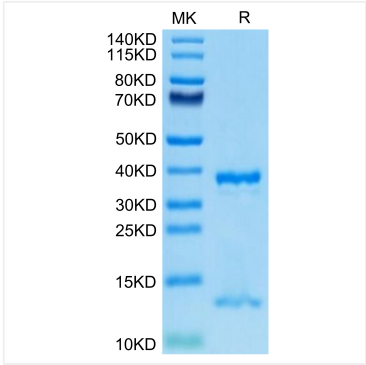
Immobilized Human FcRn, His Tag at 1 µg/mL (100 µL/well) on the plate. Dose response curve for Anti-FcRn Antibody, hFc Tag with the EC₅₀ of 5.4ng/mL determined by ELISA (QC Test).



The purity of Human FcRn is greater than 95% as determined by SEC-HPLC.



Human FcRn, His Tag captured on CM5 Chip via anti-his antibody can bind Human IgG1 Fc, No Tag with an affinity constant of 0.28 µM as determined in SPR assay (Biacore T200).



Recombinant Human FcRn/FCGRT&B2M Protein was determined by Tris-Bis PAGE under reducing conditions.