

Recombinant Human FcRn/FCGRT&B2M Protein

Catalog No.: RP00468

Sequence Information

Species	Gene ID
Human	2217
Swiss Prot	Tags
P55899-1 (FCGRT) &P61769-1(B2M)	C-His

Synonyms

FcRn alpha chain; FCGRT; FCRN;
FCGRT&B2M

Product Information

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

Calculated MW Observed MW

31.5 kDa (FCGRT), 11.7 kDa(B2M)	35-40 kDa (FCGRT), 13-14 kDa (B2M)
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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

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

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.

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.

Storage

Store at -20°C

Operational Notes

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

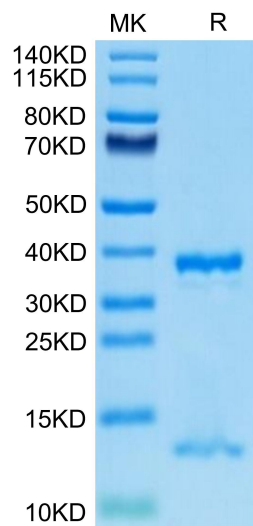
Contact

☎ | 400-999-6126

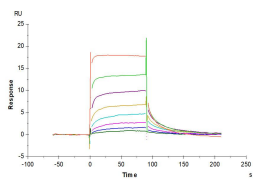
✉ | cn.market@abclonal.com.cn

🌐 | www.abclonal.com.cn

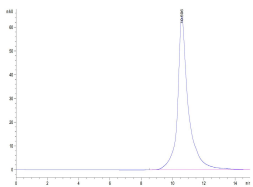
Validation Data



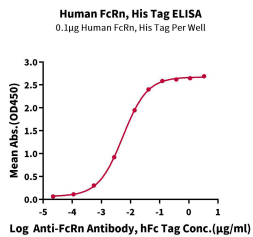
Recombinant Human FcRn/FCGRT&B2M Protein was determined by Tris-Bis PAGE under reducing conditions.



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 μ M as determined in SPR assay (Biacore T200).



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



Immobilized Human FcRn, His Tag at 1 μ g/mL (100 μ L/well) on the plate. Dose response curve for Anti-FcRn Antibody, hFc Tag with the EC_{50} of 5.4ng/mL determined by ELISA (QC Test).