

Biotinylated Recombinant Cynomolgus FcRn/FCGRT&B2M Protein

Catalog No.: RP02363B **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Cynomolgus	102128913&101867173	Q8SPV9&Q8SPW0

Tags

C-His&Avi

Synonyms

FcRn alpha chain; alpha-chain; Fc fragment of IgG; receptor; transporter; alpha; FCGRT; FCRN; FCRNimmunoglobulin receptor; intestinal; heavy chain; IgG Fc fragment receptor transporter alpha chain; IgG receptor FcRn large subunit p51; major histocompatibil

Product Information

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

Calculated MW	Observed MW
46.5 kDa	50-60 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 tube 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

Biotinylated Recombinant Cynomolgus FcRn/FCGRT&B2M Protein is produced by Expi293 expression system. The target protein is expressed with sequence (Met1-Ser297(FCGRT)&Met1-Met119(B2M)) of Cynomolgus FcRn fused with a His tag and Avi tag at the C-terminal.

Bio-Activity

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

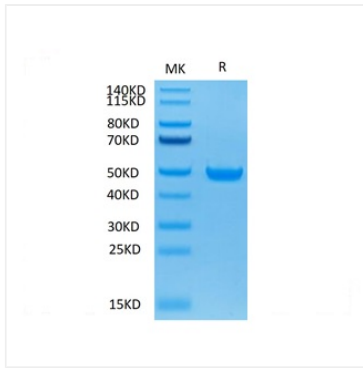
Storage

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.

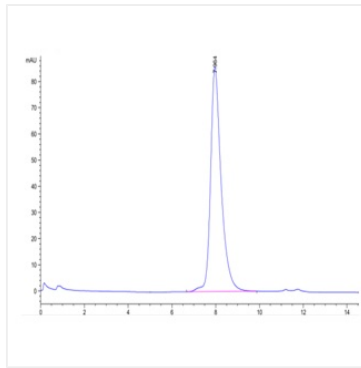
Operational Notes

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

Validation Data



Biotinylated Recombinant Cynomolgus FcRn/FCGRT&B2M Protein was determined by Tris-Bis PAGE under reducing conditions with Coomassie Blue.



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