

Biotinylated Human FcRn Protein



Cat. No. FRN-HM401B

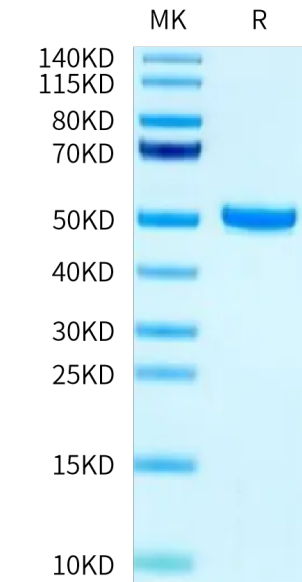
| Description | |
|------------------|--|
| Source | Recombinant Biotinylated Human FcRn Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Ala24-Ser297(FCGRT)&Ile21-Met119(B2M). |
| Accession | P55899(FCGRT)&P61769((B2M) |
| Molecular Weight | The protein has a predicted MW of 46.5 kDa. Due to glycosylation, the protein migrates to 48-55 kDa based on Bis-Tris PAGE result. |
| Endotoxin | Less than 1EU per µg by the LAL method. |
| Purity | > 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC |

| Formulation and Storage | |
|-------------------------|---|
| 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 tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water. |
| Storage | -20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-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. | |

Assay Data

Bis-Tris PAGE



Biotinylated Human FcRn on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

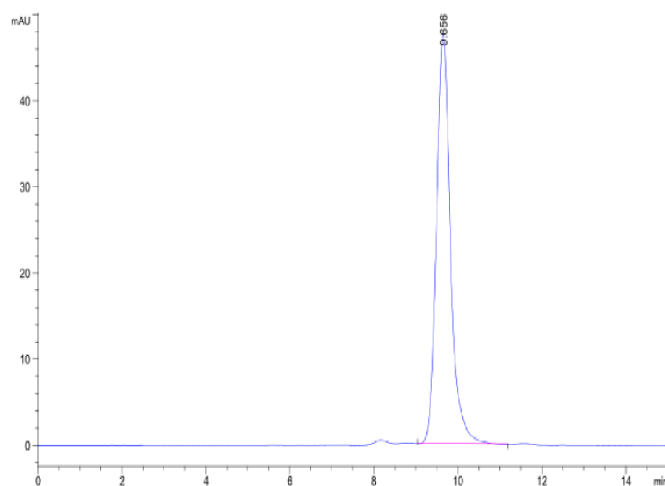
SEC-HPLC

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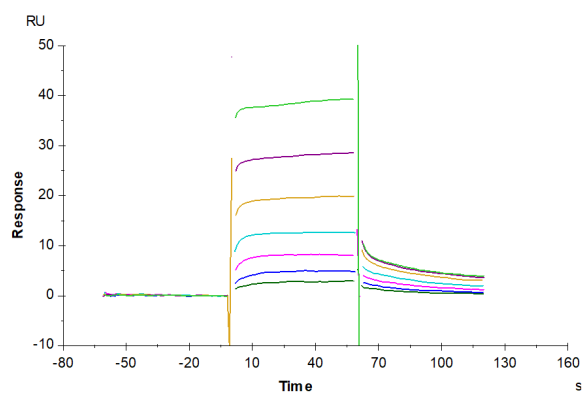
KACATUS

Assay Data



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

SPR Data



Biotinylated Human FcRn, His Tag captured on CM5 Chip via anti-his antibody can bind Trastuzumab with an affinity constant of 0.557 μ M as determined in SPR assay (Biacore T200).