

# Biotinylated Human FcRn Protein

Cat. No. FRN-HM401B

## Description

<b>Source</b>	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).
<b>Accession</b>	P55899(FCGRT)&P61769((B2M)
<b>Molecular Weight</b>	The protein has a predicted MW of 46.5 kDa. Due to glycosylation, the protein migrates to 48-55 kDa based on Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

## Formulation and Storage

<b>Formulation</b>	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 months after reconstitution. 2-8°C for 2-7 days 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

### Tris-Bis PAGE



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

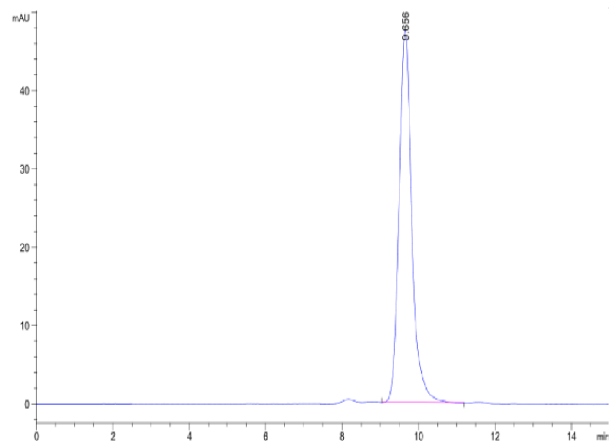
### SEC-HPLC

# Biotinylated Human FcRn Protein

Cat. No. FRN-HM401B



## Assay Data



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

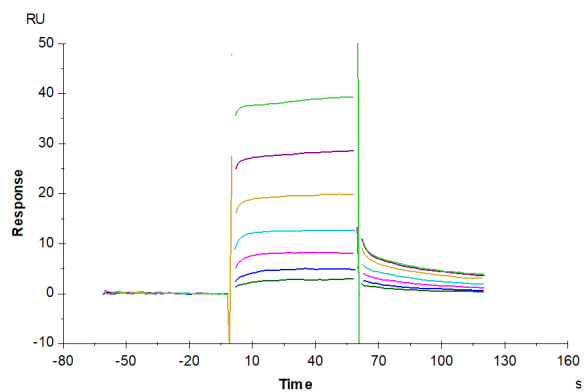
# Biotinylated Human FcRn Protein

Cat. No. FRN-HM401B



## Assay Data

### 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 uM as determined in SPR assay (Biacore T200).