

Rev03  
 Update: Aug,08,2025

**DATASHEET**

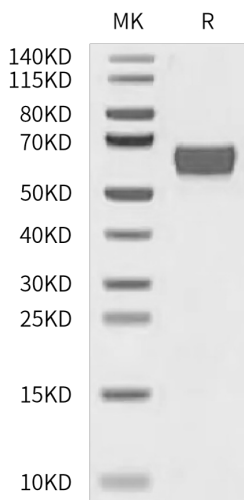
# FcRn[Biotin], His & Avi, Mouse

Cat. No.: Z04656

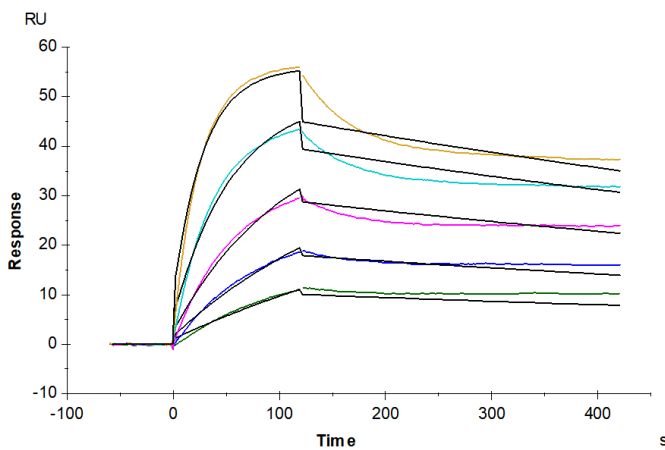
## Product Introduction

<b>Species</b>	Mouse
<b>Protein Construction</b>	<div style="display: flex; align-items: center; justify-content: center;"> <div style="background-color: #0056b3; color: white; padding: 5px; text-align: center;"> <b>FcRn[Ser22-Ser297 (FCGRT) and Ile21-Met119 (B2M)]</b>            Accession # P01887 &amp; Q61559         </div> <div style="margin: 0 10px;">N-term</div> <div style="background-color: #90c060; color: white; padding: 5px; text-align: center; width: 30px;">His</div> <div style="margin: 0 10px;">C-term</div> <div style="background-color: #008000; color: white; padding: 5px; text-align: center; width: 30px;">Avi</div> </div>
<b>Conjugate</b>	Biotin
<b>Purity</b>	> 95% as determined by BisTris PAGE > 95% as determined by HPLC
<b>Endotoxin Level</b>	Less than 1EU per µg by the LAL method.
<b>Biological Activity</b>	FcRn[Biotin], His & Avi, Mouse captured on CM5 Chip via antiHis antibody can bind Trastuzumab in SPR assay (Biacore T200). Test result was comparable to standard batch.
<b>Expression System</b>	HEK293
<b>Theoretical Molecular Weight</b>	47.1 kDa
<b>Apparent Molecular Weight</b>	Due to glycosylation, the protein migrates to 50-70 kDa based on Bis-Tris PAGE result.
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4).
<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 &amp; Stability</b>	Upon receiving, the product remains stable up to 6 months at -20 °C or below. Upon reconstitution, the product should be stable for 3 months at -80 °C. Avoid repeated freeze-thaw cycles.

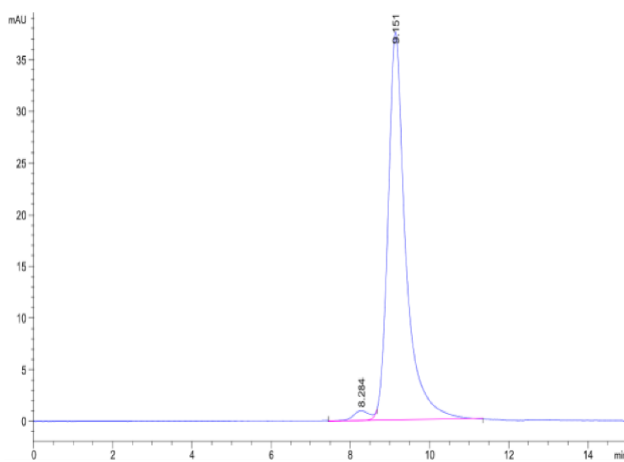
## Examples



FcRn[Biotin], His & Avi, Mouse on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.



FcRn[Biotin], His & Avi, Mouse, His Tag captured on CM5 Chip via anti-his antibody can bind Trastuzumab with an affinity constant of 1.22 nM as determined in SPR assay (Biacore T200).



The purity of FcRn[Biotin], His & Avi, Mouse is greater than 95% as determined by SEC-HPLC.

## Background

**Target 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.

**Synonyms :** FcRn alpha chain; FCGRT; FCRN; FCGRT&B2M

**For research use only. Not intended for human or animal clinical trials, therapeutic or diagnostic use.**

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