

Rev04
 Update: Aug,20,2025

DATASHEET

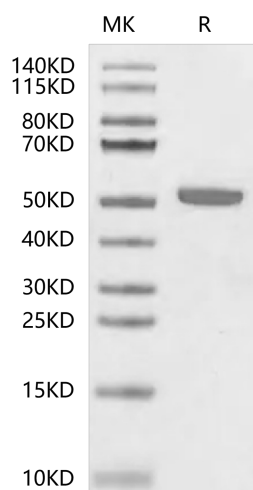
FcRn[Biotin], His & Avi, Cynomolgus/Rhesus macaque

Cat. No.: Z04379

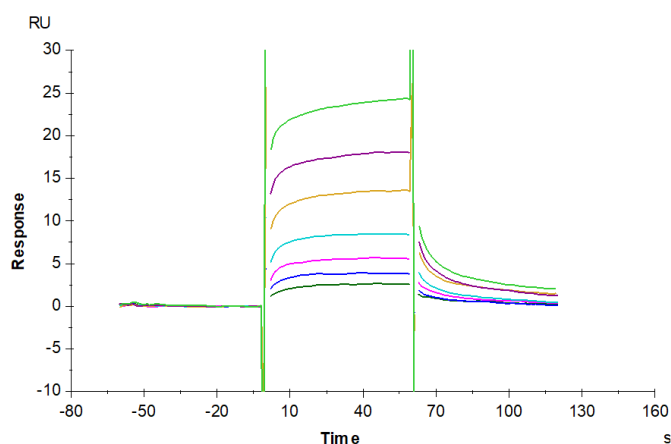
Product Introduction

Species	Cynomolgus/Rhesus macaque
Protein Construction	FcRn [Ala24-Ser297 (FCGRT) and Ile21-Met119 (B2M)] Accession # Q8SPV9 & Q8SPW0 His Avi N-termC-term
Conjugate	Biotin
Purity	> 95% as determined by BisTris PAGE
Endotoxin Level	Less than 1EU per µg by the LAL method.
Biological Activity	FcRn[Biotin], His & Avi, Cynomolgus/Rhesus macaque captured on CM5 Chip via AntiHis Antibody can bind Rituximab in SPR assay (Biacore T200). Test result was comparable to standard batch.
Expression System	HEK293
Theoretical Molecular Weight	46.5 kDa
Apparent Molecular Weight	Due to glycosylation, the protein migrates to 50-60 kDa based on Bis-Tris PAGE result.
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4).
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 & Stability	Upon receiving, the product remains stable for 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.

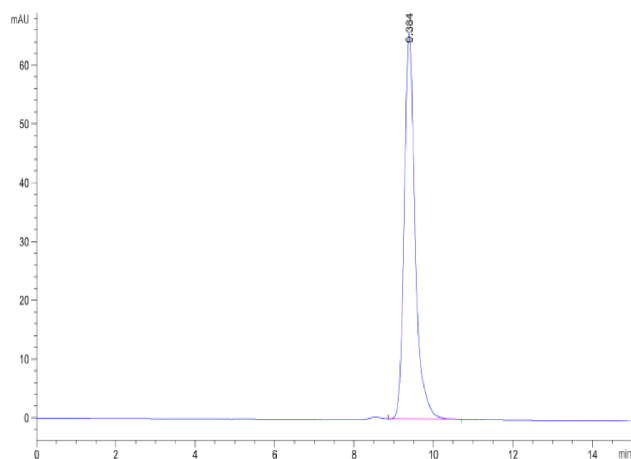
Examples



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



FcRn[Biotin], His & Avi, Cynomolgus/Rhesus macaque, His Tag captured on CM5 Chip via Anti-His Antibody can bind Rituximab, hFc Tag with an affinity constant of 0.48 μ M as determined in SPR assay (Biacore T200).



The purity of FcRn[Biotin], His & Avi, Cynomolgus/Rhesus macaque 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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