

Rat FcRn Protein

Cat. No. FRN-RM101

Description

Source	Recombinant Rat FcRn Protein is expressed from HEK293 with His tag at the C-terminus. It contains Ala23-Ser298 (FCGRT) and Ile21-Met119 (B2M).
Accession	P13599(FCGRT)&P07151(B2M)
Molecular Weight	The protein has a predicted MW of 32.60 kDa (FCGRT) and 11.63 kDa (B2M). Due to glycosylation, the protein migrates to 45-60 kDa (FCGRT) and 13-15 kDa (B2M) based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

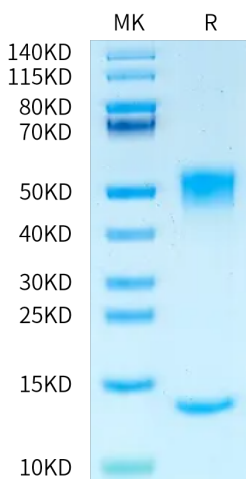
Formulation	Supplied as 0.22 µm filtered solution in PBS (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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.

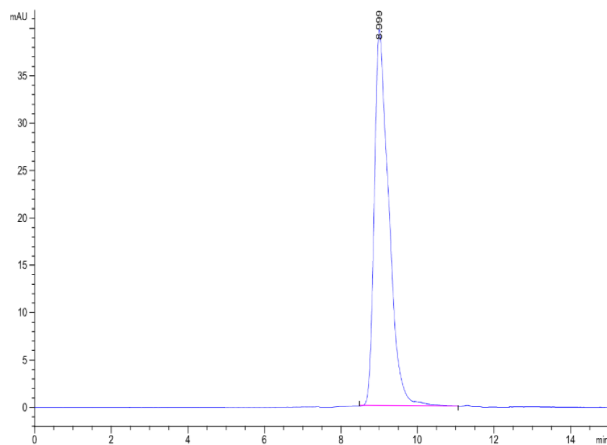
Assay Data

Tris-Bis PAGE



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

SEC-HPLC



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