

Datasheet for ABIN7274677

FcRn Protein (AA 22-297) (His tag)**6** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	FcRn
Protein Characteristics:	AA 22-297
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FcRn protein is labelled with His tag.

Product Details

Purpose:	Mouse FcRn Protein
Sequence:	Ser22-Ser297 (FCGRT) & Ile21-Met119 (B2M)
Specificity:	Uni-Prot: Q61559 (FCGRT), P01887 (B2M)
Characteristics:	Recombinant Mouse FcRn Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Ser22-Ser297 (FCGRT) & Ile21-Met119 (B2M).
Purity:	> 95 % as determined by Tris-Bis PAGE, > 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	The affinity constant of 4.55 nM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

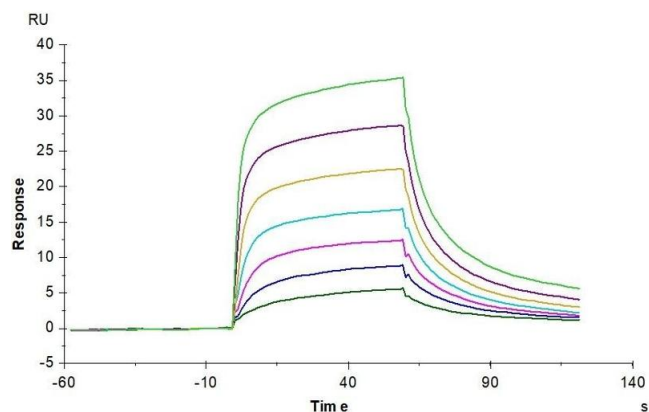
Target:	FcRn
Alternative Name:	FcRn (FcRn Products)
Background:	The neonatal Fc receptor (FCRN) is an approximately 45 kDa transmembrane glycoprotein with structural homology to MHC class I proteins. It is widely expressed in endothelial and epithelial cells and plays an important role in IgG homeostasis 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.
Molecular Weight:	32.1 kDa (FCGRT)&11.7 kDa (B2M). Due to glycosylation, the protein migrates to 50-55 kDa (FCGRT)&14-15 kDa (B2M) based on Tris-Bis PAGE result.
UniProt:	Q61559
Pathways:	Regulation of Leukocyte Mediated Immunity , Positive Regulation of Immune Effector Process

Application Details

Restrictions:	For Research Use only
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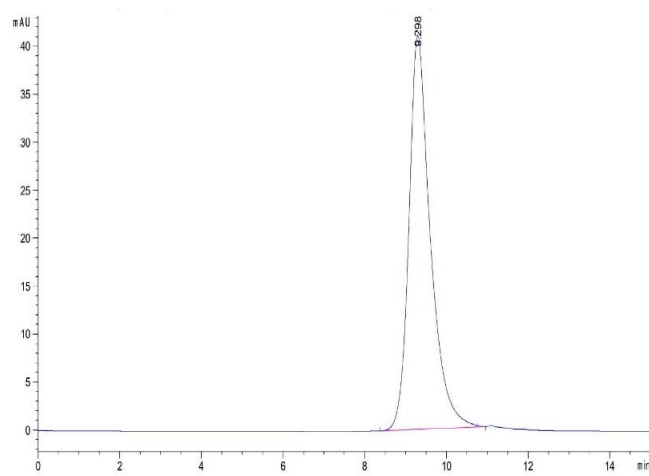
Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-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.
Expiry Date:	12 months



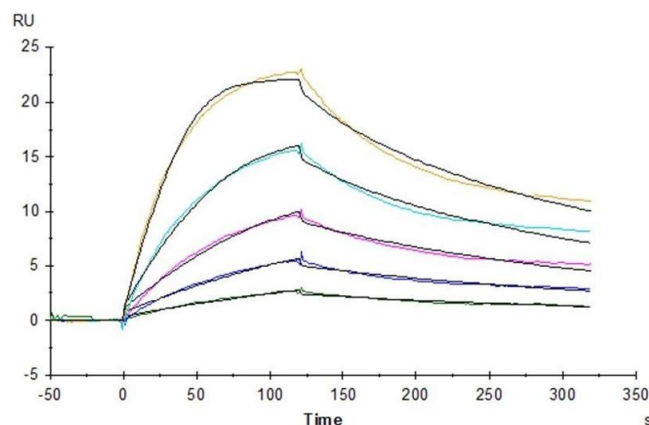
Surface Plasmon Resonance

Image 1. Mouse Serum Albumin, His Tag immobilized on CM5 Chip can bind Mouse FcRn, His Tag with an affinity constant of 54.53 nM as determined in SPR assay (Biacore T200).



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Mouse FcRn is greater than 95 % as determined by SEC-HPLC.



Surface Plasmon Resonance

Image 3. Mouse FcRn, His Tag captured on CM5 Chip via anti-his antibody can bind Trastuzumab with an affinity constant of 4.55 nM as determined in SPR assay (Biacore T200).

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN7274677.