



## Synonym

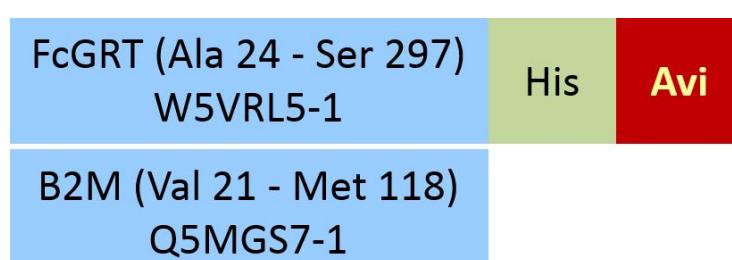
FcRn,FCGRT & B2M

## Source

Biotinylated Feline FCGRT&B2M Heterodimer Protein, His,Avitag(FCN-F82W3) is expressed from human 293 cells (HEK293). It contains AA Ala 24 - Ser 297 (FCGRT) & Val 21 - Met 118 (B2M) (Accession # [W5VRL5-1](#) (FCGRT) & [Q5MGS7-1](#) (B2M)).

Predicted N-terminus: Ala 24 (FCGRT) & Val 21 (B2M)

## Molecular Characterization



Biotinylated Feline FCGRT&B2M Heterodimer Protein, His,Avitag, produced by co-expression of FCGRT and B2M, has a calculated MW of 34.0 kDa (FCGRT) and 11.5 kDa (B2M). Subunit FCGRT is fused with a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™) and subunit Beta-2 microglobulin (B2M) contains no tag. The reducing (R) protein migrates as 36-40 kDa (FCGRT) and 18-20 kDa (B2M) respectively due to glycosylation.

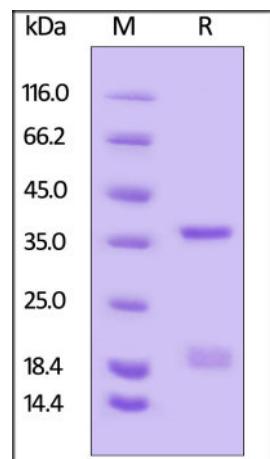
## Labeling

*Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.*

## Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

## SDS-PAGE



Biotinylated Feline FCGRT&B2M Heterodimer Protein, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

## Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

## Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

## Reconstitution

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

## Storage

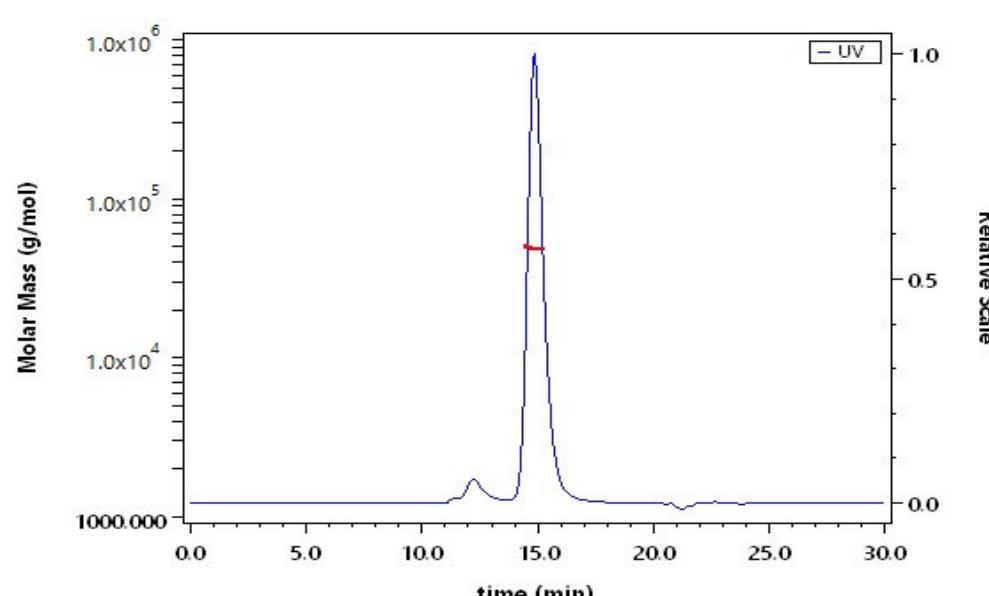
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## SEC-MALS



The purity of Biotinylated Feline FCGRT&B2M Heterodimer Protein, His,Avitag (Cat. No. FCN-F82W3) is more than 90% and the molecular weight

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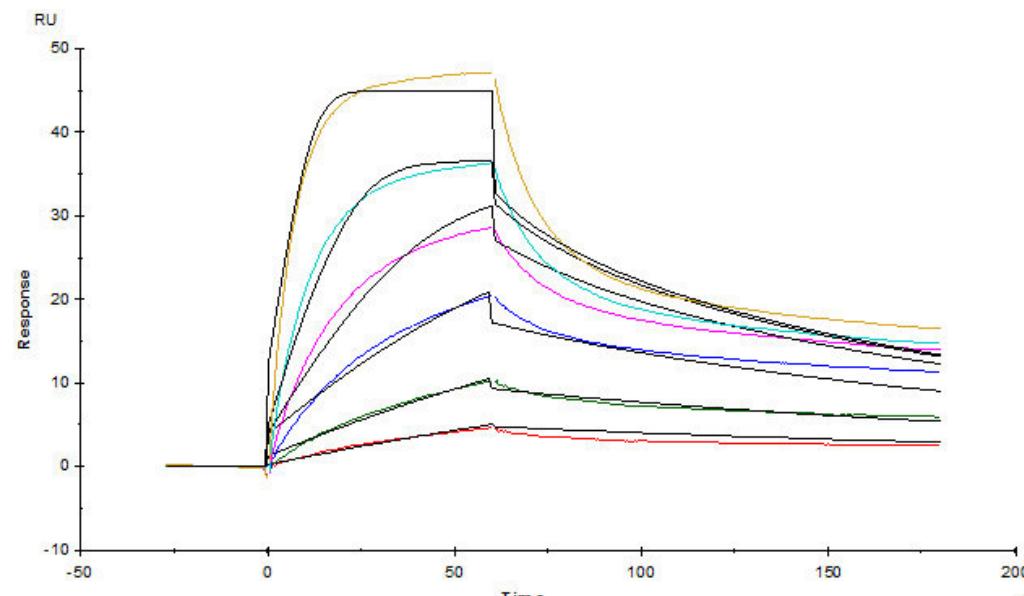
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of this protein is around 50-60 kDa verified by SEC-MALS.

[Report](#)

### Bioactivity-SPR



Biotinylated Feline FCGRT&B2M Heterodimer Protein, His,Avitag (Cat. No. FCN-F82W3) captured on Biotin CAP-Series S Sensor Chip can bind Herceptin® with an affinity constant of 1.13 nM as determined in a SPR assay (Biacore T200) (QC tested).

### Background

FCGRT & B2M heterodimer protein (FcRn complex) consist of two subunits: p51 (equivalent to FCGRT), and p14 (equivalent to beta-2-microglobulin), and forms an MHC class I-like heterodimer. Fc fragment of IgG, receptor, transporter, alpha (FCGRT) binds to the Fc region of monomeric immunoglobulins gamma and mediates the uptake of IgG from milk. FCGRT possible role in transfer of immunoglobulin G from mother to fetus. Beta-2-microglobulin (B2M) is a component of the class I major histocompatibility complex (MHC) and involved in the presentation of peptide antigens to the immune system.

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