

# Biotinylated Recombinant Human Fc gamma RIIA/FCGR2A/CD32a (H167R) Protein

Catalog No.: RP00480B Recombinant

# **Sequence Information**

SpeciesGene IDSwiss ProtHuman2212P12318-1

# Tags

C-His&Avi

#### **Synonyms**

Fc gamma RIIA; FCG2; FCGR2; FCGR2A; FCGR2A1; FcgRIIA; FCRIIA; fcRII-a; FCG2; CD32A

#### **Product Information**

#### Source

HEK293 cells

Purification ≥ 95 % as

determined by SDS-PAGE;≥ 95 % as determined by HPLC.

#### Calculated MW Observed MW

23.2 kDa 30-40 kDa

#### **Endotoxin**

< 1 EU/ $\mu g$  of the protein by LAL method.

#### **Formulation**

Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

#### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

#### **Contact**

2	400-999-6126
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### **Background**

The Fc gamma Rs have been divided into three classes based on close relationships in their extracellular domains; these groups are designated Fc gamma RI (also known as CD64), Fc gamma RII (CD32), and Fc gamma RIII (CD16). Each group may be encoded by multiple genes and exist in different isoforms depending on species and cell type. The CD64 proteins are high affinity receptors ( $10^{-8}$ - $10^{-9}$  M) capable of binding monomeric lgG, whereas the CD16 and CD32 proteins bind lgG with lower affinities ( $10^{-6}$ - $10^{-7}$  M) only recognizing lgG aggregates surrounding multivalent antigens.

#### **Basic Information**

#### **Description**

Biotinylated Recombinant Human Fc gamma RIIA/FCGR2A/CD32a (H167R) Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ala36-Ile218(H167R)) of Human Fc gamma RIIA/CD32a (Accession #P12318-1) fused with a C-His&Avi tag at the C-terminus.

#### **Bio-Activity**

#### Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

#### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

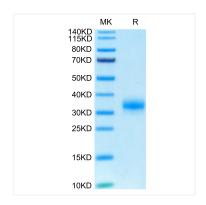
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

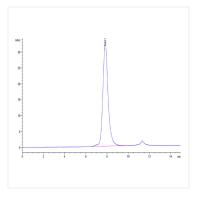
#### **Operational Notes**

For your safety and health, please wear a lab coat and disposable gloves for handling.

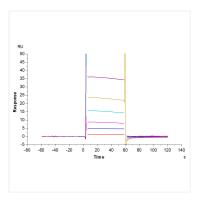
## **Validation Data**



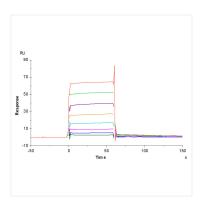
Biotinylated Recombinant Human Fc gamma RIIA/FCGR2A/CD32a (H167R) Protein was determined by Tris-Bis PAGE under reducing conditions.



The purity of Biotinylated Fc gamma RIIA (R167) is greater than 95% as determined by SEC-HPLC.



Biotinylated Human Fc gamma RIIA (R167) , His-Avi Tag captured on CM5 Chip via antihis antibody can bind Rituximab with an affinity constant of 2.17  $\mu$ M as determined in SPR assay (Biacore T200) (QC Test).



Rituximab captured on CM5 Chip via Protein A can bind Biotinylated Human Fc gamma RIIA (R167) , His-Avi Tag with an affinity constant of 1.03  $\mu\text{M}$  as determined in SPR assay (Biacore T200).