

# Recombinant Human Fc gamma RIIA/FCGR2A/CD32a Protein

Catalog No.: RP00481 **Recombinant**

## Sequence Information

| Species | Gene ID | Swiss Prot |
|---------|---------|------------|
| Human   | 2212    | P12318-1   |

### Tags

C-His&Avi

### Synonyms

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

## Product Information

| Source       | Purification                       |
|--------------|------------------------------------|
| HEK293 cells | > 95% by SDS-PAGE<br>> 95% by HPLC |

### Endotoxin

< 1 EU/μg 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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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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.

## Basic Information

### Description

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

### Bio-Activity

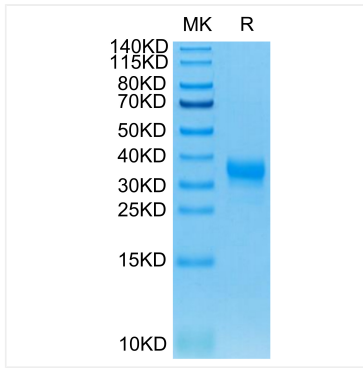
#### Storage

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

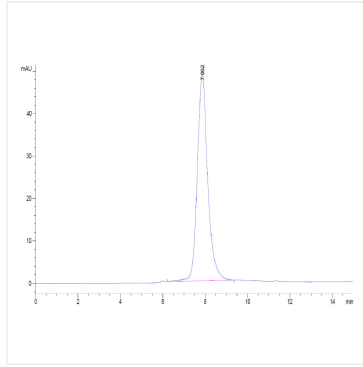
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

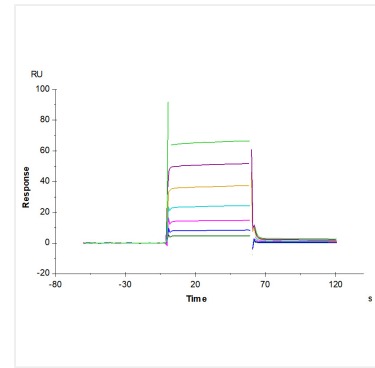
## Validation Data



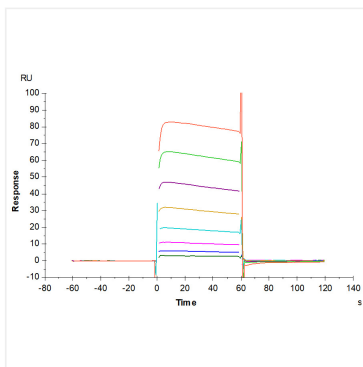
Human Fc gamma RIIA (H167) on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



The purity of Human Fc gamma RIIA (H167) is greater than 95% as determined by SEC-HPLC.



Rituximab captured on CM5 Chip via Protein A can bind Human Fc gamma RIIA (H167), His Tag with an affinity constant of  $0.73 \mu\text{M}$  as determined in SPR assay (Biacore T200).



Human Fc gamma RIIA (H167), His Tag captured on CM5 Chip via anti-his antibody can bind Rituximab with an affinity constant of  $1.53 \mu\text{M}$  as determined in SPR assay (Biacore T200) (QC Test).