

# Recombinant Cynomolgus Fc gamma RIII/CD16 Protein

Catalog No.: RP02640 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Cynomolgus	102140945	Q8SPW2-1

**Tags**  
C-His

**Synonyms**  
IgG Fc receptor III; Fc-gamma RIII; FcRIII;  
FCGR3; CD16; CD16A; FCG3; FcgRIII;  
FCR-10; FCRIIIA; IGFR3; IMD20

## Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by Tris-Bis PAGE; ≥ 95 % as determined by HPLC.

Calculated MW	Observed MW
23.1 kDa	45-55 kDa

**Endotoxin**  
< 1 EU/μg of the protein by LAL method.

## Formulation

**Reconstitution**  
Centrifuge the tube 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

☎ | 400-999-6126

✉ | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn)

🌐 | [www.abclonal.com.cn](http://www.abclonal.com.cn)

## Background

Immunoglobulin G (IgG) Fc receptors play a critical role in linking IgG antibody-mediated immune responses with cellular effector functions. A high resolution map of the binding site on human IgG1 for human Fc gamma RI, Fc gamma RIIA, Fc gamma RIIIB, Fc gamma RIIIA, and FcRn receptors has been determined. A common set of IgG1 residues is involved in binding to all Fc gamma R; Fc gamma RII and Fc gamma RIII also utilize residues outside this common set.

## Basic Information

**Description**  
Recombinant Cynomolgus Fc gamma RIII/CD16 Protein is expressed from Expi293 with His tag at the C-terminal. It contains Gly17-Gln208.

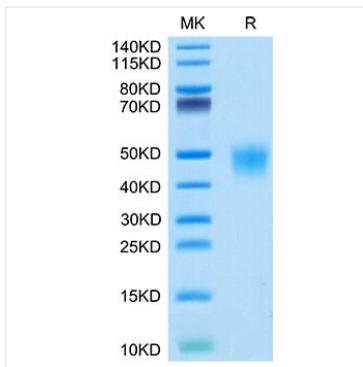
## Bio-Activity

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

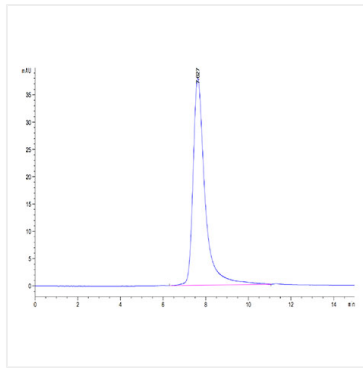
**Storage**  
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.  
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.  
Avoid repeated freeze/thaw cycles.

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

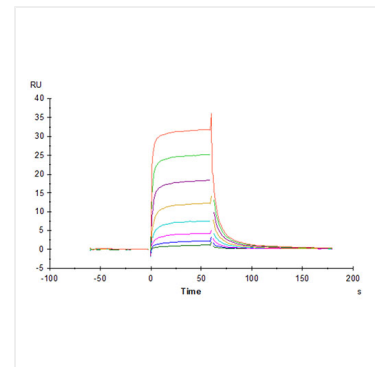
## Validation Data



Recombinant Cynomolgus Fc gamma RIII/CD16 Protein was determined by Tris-Bis PAGE under reducing conditions.



The purity of Cynomolgus Fc gamma RIII is greater than 95% as determined by SEC-HPLC.



Rituximab captured on CM5 Chip via Protein A can bind Cynomolgus Fc gamma RIII, His Tag with an affinity constant of 0.251  $\mu\text{M}$  as determined in SPR assay (Biacore T200).