

# 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 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

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# **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 RIIB, 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.

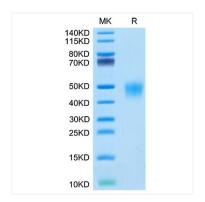
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

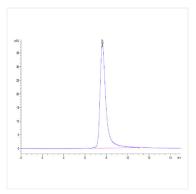
#### **Operational Notes**

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

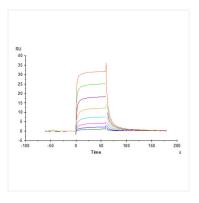
# **Validation Data**



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).