

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; IGRF3; 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


Less than 1EU per µg by the 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 freeze-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 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

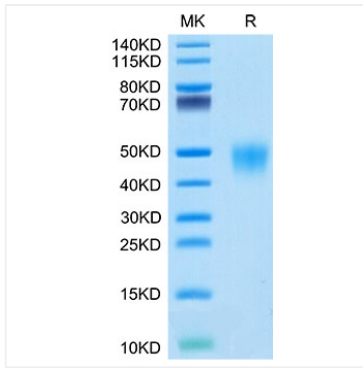
Recombinant Cynomolgus Fc gamma RIII/CD16 Protein is expressed from Expi293 with His tag at the C-terminal. It contains Gly17-Gln208.

Bio-Activity

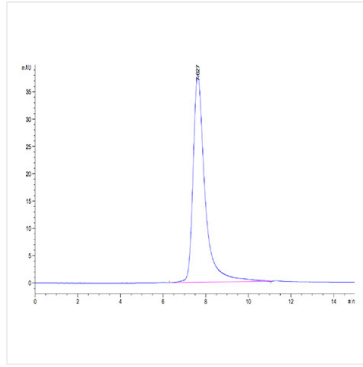
Storage

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.

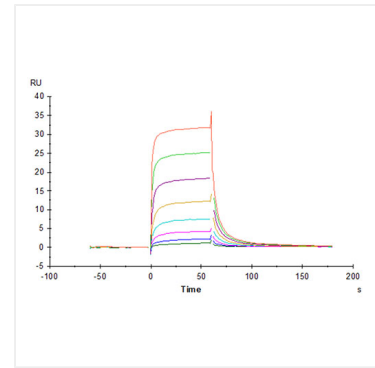
Validation Data



Cynomolgus Fc gamma RIII on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



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 μM as determined in SPR assay (Biacore T200).