

Biotinylated Recombinant Human Fc-gamma RIII alpha/CD16a(V176) Protein

Catalog No.: RP02537 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human		AAH17865

Tags

C-His&Avi

Synonyms

CD16FCRIIIA; Fc fragment of IgG; Fc gamma RIIIA; Fc-gamma RIII-alpha; FCGR3; FCGR3A; FCGRIII; FcγRIIIA; FcR-10; CD16A; FCG3; IGFR3; FcRIIIa; FcRIII; CD16; IMD20

Product Information

Source

HEK293 cells

Purification

> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

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 free-thaw cycles.

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Background

The Human Fc gamma RIIIA/CD16a Protein is a receptor for the Fc region of IgG. Binds complexed or aggregated IgG and also monomeric IgG. Mediates antibody-dependent cellular cytotoxicity (ADCC) and other antibody-dependent responses, such as phagocytosis.

Basic Information

Description

Recombinant Biotinylated Human Fc gamma RIIIA/CD16a (V176) Protein is expressed from Expi293 with His tag and Avi tag at the C-terminal. It contains Gly17-Gln208 .

Bio-Activity

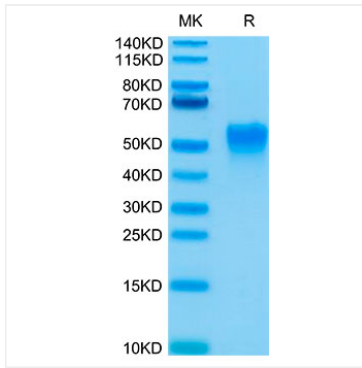
Storage

Store the lyophilized protein at -20°C to -80°C for long term.

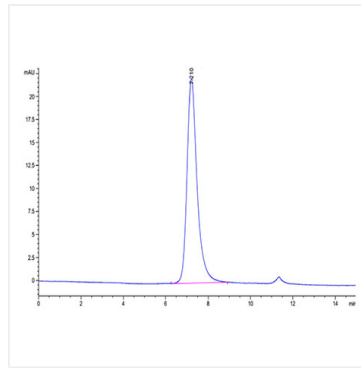
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

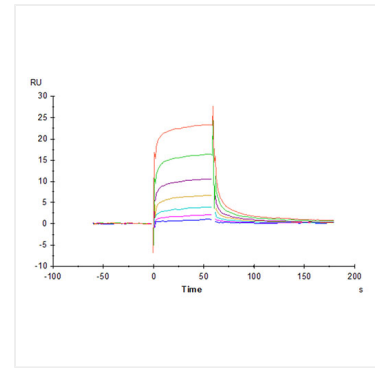
Validation Data



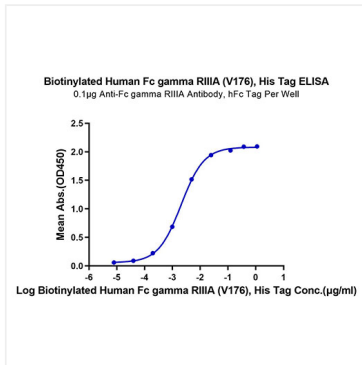
Biotinylated Human Fc gamma RIIIA (V176) on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



The purity of Biotinylated Human Fc gamma RIIIA (V176) is greater than 95% as determined by SEC-HPLC.



Rituximab captured on CM5 Chip via Protein A can bind Biotinylated Human Fc gamma RIIIA (V176), His-Avi Tag with an affinity constant of $0.539 \mu\text{M}$ as determined in SPR assay (Biacore T200).



Immobilized Anti-Fc gamma RIIIA Antibody, hFc Tag at $1 \mu\text{g/ml}$ ($100 \mu\text{l/well}$) on the plate. Dose response curve for Biotinylated Human Fc gamma RIIIA (V176), His Tag with the EC_{50} of 2ng/ml determined by ELISA.