

RP00475B

Leader in Biomolecular Solutions for Life Science



Biotinylated Recombinant Human Fc-gamma RIII alpha/FCGR3A/CD16a Protein

Catalog No.: RP00475B

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
HEK293 cells	2214	P08637-1

Tags

C-His&Avi

Synonyms

Fc gamma RIIIA; FCGR3; FCGR3A; FCGRIII; FcgRIIIA; FcR-10; CD16A; FCG3; IGFR3; FcRIIIa; FcRIII; CD16; IMD20

Product Information

Source

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.

Purification

≥ 95 % as determined by SDS-PAGE; ≥ 95 % as determined 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.

Background

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

Biotinylated Recombinant Human Fc-gamma RIII alpha/FCGR3A /CD16a Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gly17-Gln208) of Human Fc-gamma RIII alpha/FCGR3A /CD16a (Accession #P08637-1) fused with a C-His&Avi tag at the C-terminus.

Bio-Activity

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Operational Notes

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

Storage

Store at -20°C
Avoid repeated freeze/thaw cycles.

Reconstitution

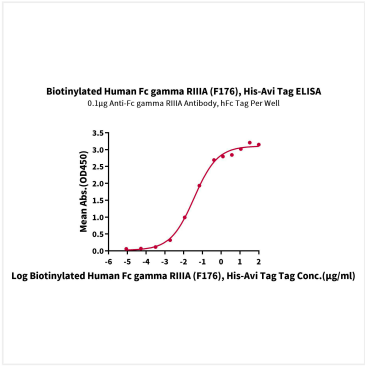
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Contact

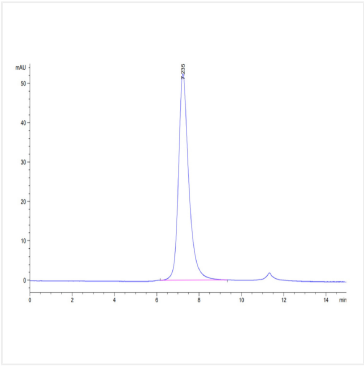


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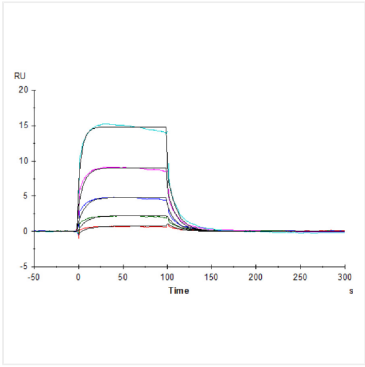
Validation Data



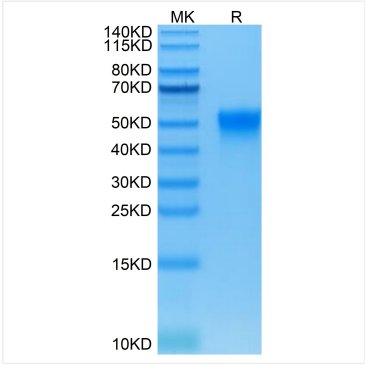
Immobilized Anti-Fc gamma RIIIA Antibody, hFc Tag at 1 µg/mL (100 µL/Well) on the plate. Dose response curve for Biotinylated Human Fc gamma RIIIA (F176), His-Avi Tag with the EC₅₀ of 35.7ng/mL determined by ELISA (QC Test).



The purity of Biotinylated Human Fc gamma RIIIA (F176) is greater than 95% as determined by SEC-HPLC.



Biotinylated Human Fc gamma RIIIA (F176), His Tag captured on CM5 Chip via Anti-His Antibody can bind Rituximab, hFc Tag with an affinity constant of 0.14µM as determined in SPR assay (Biacore T200).



Biotinylated Recombinant Human Fc-gamma RIII alpha/FCGR3A/CD16a Protein was determined by Tris-Bis PAGE under reducing conditions.