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

Catalog No.: RP00475B

Sequence Information

Species
Human

Gene ID
2214

Swiss Prot
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
HEK293 cells

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

Calculated MW
24.7 kDa

Observed MW
48-58 kDa

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.

Reconstitution
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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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.

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.

Storage
Store at -20℃

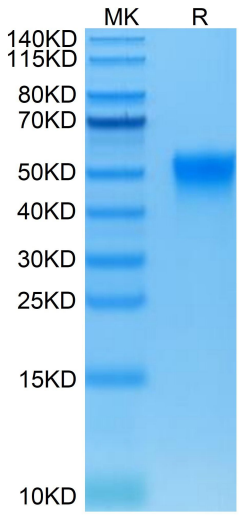
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

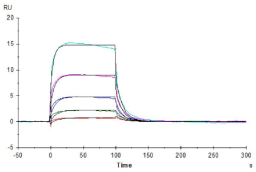
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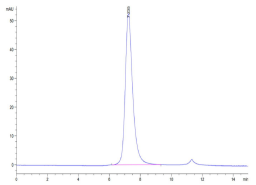
Validation Data



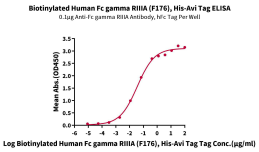
Biotinylated Recombinant Human Fc-gamma RIII alpha/FCGR3A/CD16a Protein was determined by Tris-Bis PAGE under reducing conditions.



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).



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



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 EC_{50} of 35.7ng/mL determined by ELISA (QC Test).