Biotinylated Recombinant Human Fc-gamma RIII alpha/FCGR3A/CD16a (F176V) Protein

Catalog No.: RP00478B

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Sequence Information

Species	Gene ID
Human	2214

Swiss Prot	Tags
AAH17865	C-His&Avi

Synonyms

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

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE;≥ 95 % as determined by HPLC.

Calculated MW	Observed MW
24.7 kDa	45-60 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

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

Biotinylated Recombinant Human Fc-gamma RIII alpha/FCGR3A /CD16a (F176V) Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gly17-Gln208(F176V)) of Human Fc-gamma RIII alpha/FCGR3A /CD16a (F176V) (Accession #AAH17865) 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

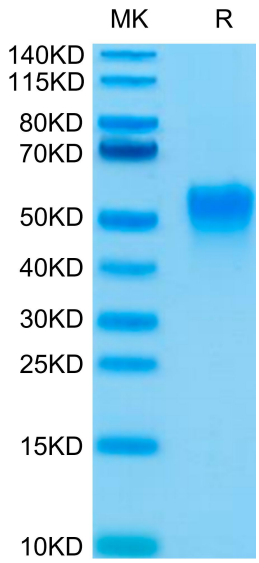
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

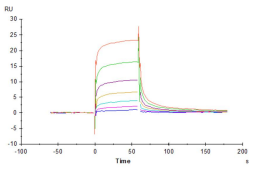
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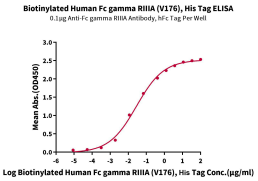
Validation Data



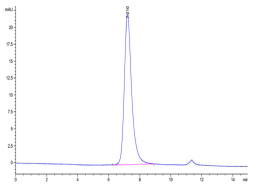
Biotinylated Recombinant Human Fc-gamma RIII alpha/FCGR3A/CD16a (F176V) Protein was determined by Tris-Bis PAGE under reducing conditions.



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 μM as determined in SPR assay (Biacore T200).



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 (V176) , His Tag with the EC_{50} of 28.2ng/mL determined by ELISA (QC Test).



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