

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

Catalog No.: RP00478B Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 2214 AAH17865

Tags 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.

Contact

8	400-999-6126
\times	cn.market@abclonal.com.cn

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.

Bio-Activity

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

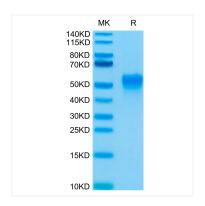
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

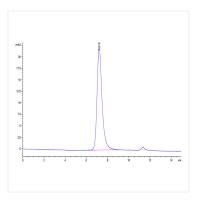
Operational Notes

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

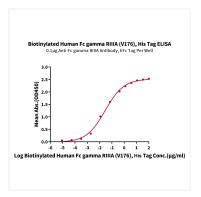
Validation Data



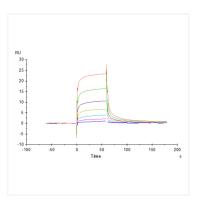
Biotinylated Recombinant Human Fc-gamma RIII alpha/FCGR3A/CD16a (F176V) Protein was determined by Tris-Bis PAGE under reducing conditions.



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



Immobilized Anti-Fc gamma RIIIA Antibody, hFc Tag at 1 μ g/mL (100 μ L/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).



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 μ M as determined in SPR assay (Biacore T200).