

Biotinylated Recombinant Human Fc-gamma RIII beta/CD16b Protein

Catalog No.: RP02562 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human		O75015-1

Tags

C-His&Avi

Synonyms

CD16; Fc gamma RIIIB; FCG3; Fc-gamma receptor IIIb (CD 16); Fc-gamma RIIIb; Fc-gamma RIII-beta; FCGR3B; FcgRIIIB; FCRIIIB; IGFR3; IgG Fc receptor III-1; CD16b (NA2); CD16B; FCG3B; FCG3; FCGR3; FCR-10

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.

Contact

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Background

Human Fc gamma RIIIB/CD16b Protein is a receptor for the Fc region of immunoglobulins gamma. Low affinity receptor. Binds complexed or aggregated IgG and also monomeric IgG. Contrary to III-A, is not capable to mediate antibody-dependent cytotoxicity and phagocytosis. May serve as a trap for immune complexes in the peripheral circulation which does not activate neutrophils.

Basic Information

Description

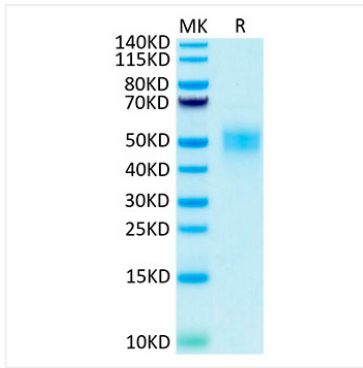
Recombinant Biotinylated Human Fc gamma RIIIB/CD16b (NA2) Protein is expressed from Expi293 with His tag and Avi tag at the C-terminal. It contains Gly17-Ser200. The CD16b NA1 differ with the CD16b NA2 in AA36, 65, 82, and 106. The CD16b NA1 form carries R36, N65, D82, and V106, while the CD16b NA2 form carries S36, S65, N82, and I106.

Bio-Activity

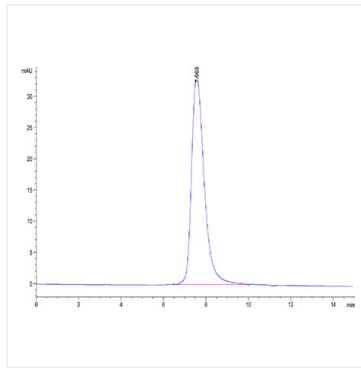
Storage

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.

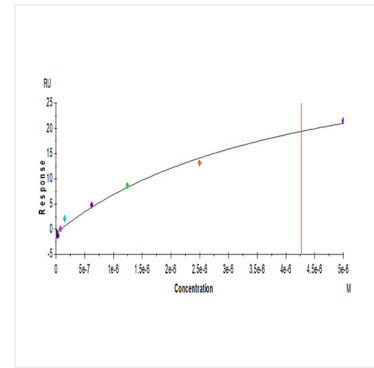
Validation Data



Biotinylated Human Fc gamma RIIIB (NA2) on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



The purity of Biotinylated Human Fc gamma RIIIB (NA2) is greater than 95% as determined by SEC-HPLC.



Biotinylated Human Fc gamma RIIIB (NA2), His Tag captured on CM5 Chip via Anti-His Antibody can bind Rituximab, hFc Tag with an affinity constant of $4.3\mu\text{M}$ as determined in SPR assay (Biacore T200).