Biotinylated Recombinant Human Fc gamma RIIB /FCGR2B/CD32b Protein

Catalog No.: RP00479B

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Sequence Information

Species
Human

Gene ID
2213

Swiss Prot
P31994-1

Tags
C-His&Avi

Synonyms
Fc gamma RII; Fc gamma RIIB; CD32; CD32b; CDw32; FCG2; IGFR2; CD32A; FCG2 ; FcGR; FCGR2; FCGR21; FCGR2A

Product Information

Source
HEK293 cells

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

Calculated MW
22.5 kDa

Observed MW
32-37 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 Fc gamma Rs have been divided into three classes based on close relationships in their extracellular domains; these groups are designated Fc gamma RI (also known as CD64), Fc gamma RII (CD32), and Fc gamma RIII (CD16). Each group may be encoded by multiple genes and exist in different isoforms depending on species and cell type. The CD64 proteins are high affinity receptors (~10e-8-10e-9 M) capable of binding monomeric IgG, whereas the CD16 and CD32 proteins bind IgG with lower affinities (~10e-6-10e-7 M) only recognizing IgG aggregates surrounding multivalent antigens.

Basic Information

Description
Biotinylated Recombinant Human Fc gamma RIIB/FCGR2B/CD32b Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ala46-Pro217) of Human Fc gamma RIIB/CD32b (Accession #P31994-1) 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℃

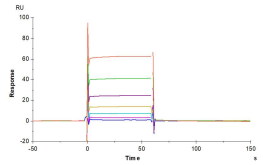
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

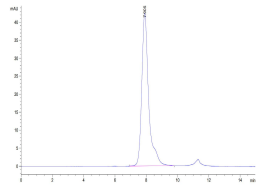
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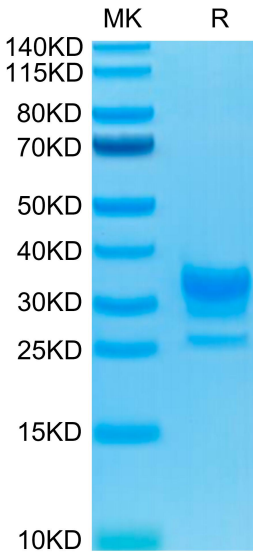
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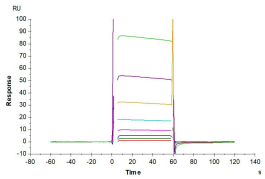
Rituximab captured on CM5 Chip via Protein A can bind Biotinylated Human Fc gamma RIIB, His-Avi Tag with an affinity constant of 3.97 μM as determined in SPR assay (Biacore T200).



The purity of Biotinylated Human Fc gamma RIIB is greater than 95% as determined by SEC-HPLC.



Biotinylated Recombinant Human Fc gamma RIIB/FCGR2B/CD32b Protein was determined by Tris-Bis PAGE under reducing conditions.



Biotinylated Human Fc gamma RIIB, His-Avi Tag captured on CM5 Chip via Anti-his antibody can bind Rituximab with an affinity constant of 5.87 μM as determined in SPR assay (Biacore T200) (QC Test).