Recombinant Human Fc-gamma RIII beta/FCGR3B /CD16b Protein

Catalog No.: RP00471

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Sequence Information

Species
Human

Gene ID
2215

Swiss Prot
O75015-1

Tags
C-His&Avi

Synonyms
CD16; Fc gamma RIIIB; FCG3; FCGR3B; FcgRIIIB; FCRIIIB; IGFR3; CD16b (NA2); CD16B; FCG3B; FCG3; FCGR3; FCR-10

Product Information

Source
HEK293 cells

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

Calculated MW
23.7 kDa

Observed MW
47-53 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 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 Human Fc-gamma RIII beta/FCGR3B/CD16b Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gly17-Ser200) of Human Fc-gamma RIII beta/FCGR3B /CD16b (Accession #O75015-1) 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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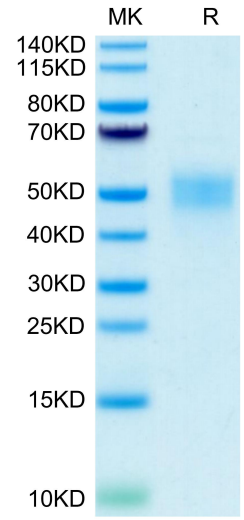
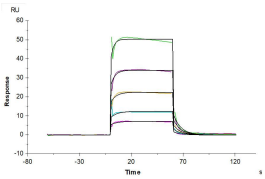
For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.

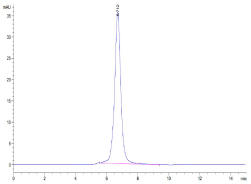
Validation Data



Recombinant Human Fc-gamma RIII beta/FCGR3B/CD16b Protein was determined by Tris-Bis PAGE under reducing conditions.



Human Fc gamma RIIIB (NA2), His Tag captured on CM5 Chip via Anti-his antibody can bind Rituximab with an affinity constant of 2.33 μM as determined in SPR assay (Biacore T200).



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