

RP00474

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Recombinant Human Fc-gamma RIII beta/FCGR3B/CD16b (S36R, N82D, I106V) Protein

Catalog No.: RP00474 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
HEK293 cells	2215	O75015

Tags

C-His

Synonyms

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

Product Information

Source	Purification
Yeast	> 95% by SDS- PAGE ; > 95% by HPLC

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 stabilizer (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 (S36R, N82D, I106V) 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 (S36R,N82D,I106V) (Accession #O75015) fused with a C-His tag at the C-terminus.

Bio-Activity

Storage

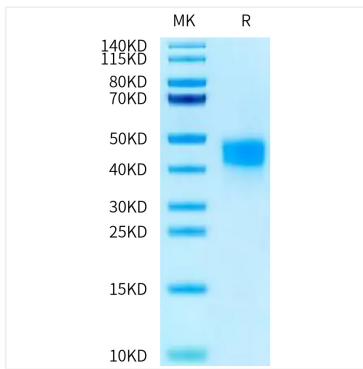
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

Contact

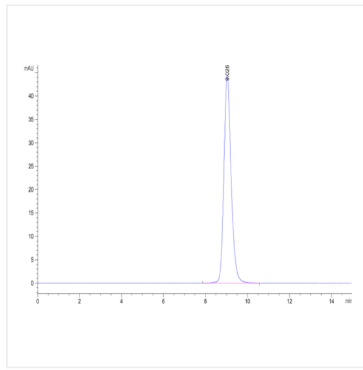


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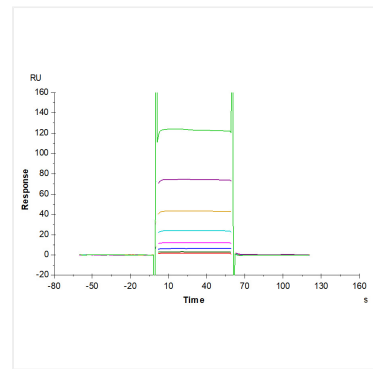
Validation Data



Human Fc gamma RIIIB (NA1) on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



The purity of Human Fc gamma RIIIB (NA1) is greater than 95% as determined by SEC-HPLC.



Human Fc gamma RIIIB (NA1), His Tag captured on CM5 Chip via anti-his antibody can bind Rituximab with an affinity constant of $8.55 \mu\text{M}$ as determined in SPR assay (Biacore T200).