

Recombinant Human Fc-gamma RIII beta/CD16b Protein

Catalog No.: RP00291 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	2215	O75015

Tags

C-His

Synonyms

FCGR3B;CD16;CD16b;FCG3;FCGR3;FCR-10;FCRIII;FCRIIIb

Product Information

Source	Purification
HEK293 cells	> 97% by SDS-PAGE.

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.


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 freeze-thaw cycles.

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Background

CD16 is a low affinity Fc receptor, and has been identified as Fc receptors FcγRIIIa (CD16a) and FcγRIIIb (CD16b). These receptors function in the activation or inhibition of immune responses. CD16 encoded by two different highly homologous genes in a cell type-specific manner. CD16 is found on the surface of natural killer cells, neutrophil polymorphonuclear leukocytes, monocytes and macrophages. CD16b is also known as FCGR3B and FCG3B, is expressed specifically by polymorphonuclear leukocytes (neutrophils) and stimulated eosinophils. CD16b is the low affinity receptor for the Fc region of immunoglobulins gamma. CD16b 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/CD16b Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Thr20-Gln208) of human Fc gamma RIIIb/CD16b (Accession #NP_000561.3) fused with a 6×His tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized APC anti-human CD16 Antibody at 1μg/mL (25 μL/well) can bind Human FCGR3B with a linear range of 0.46-1.16ng/mL.

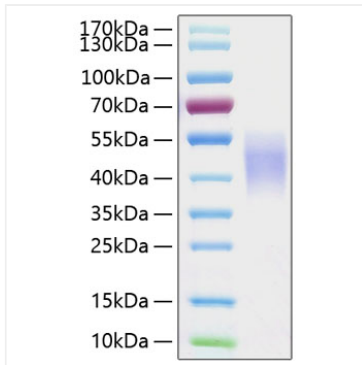
Storage

Store the lyophilized protein at -20°C to -80 °C for long term.

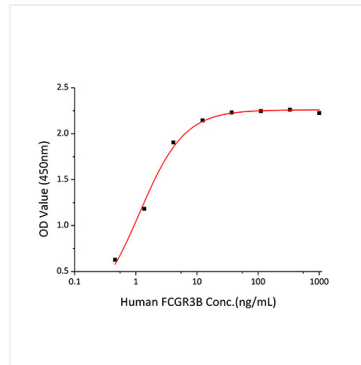
After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human Fc-gamma RIII beta/CD16b Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 38-55 kDa.



Immobilized APC anti-human CD16 Antibody at 1 μ g/mL (25 μ L/well) can bind Human FCGR3B with a linear range of 0.46-1.16ng/mL.