

CD16b Protein, Human, Recombinant (NA1, His & Avi), Biotinylated

General Information

Synonyms:	Fc fragment of IgG receptor IIIb;CD16;FCRIII;Fc gamma RIIIb;FCGR3;FCRIIIb;Fc γ RIIIb;FCR-10;FCG3;CD16b
Protein Construction:	Gly17-Ser200
Species:	Human
Expression Host:	HEK293 Cells
Accession:	AAA35881.1
Molecular Weight:	23.81 kDa (Predicted); 43-53 kDa (Reducing conditions due to glycosylation)

QC Testing

Biological Activity:	Biotinylated Human Fc gamma RIIIB (NA1), His Tag captured on CM5 Chip via anti-his antibody can bind Rituximab with an affinity constant of 8.00 μ M as determined in SPR assay (Biacore T200).
Purity:	> 95% as determined by Bis-Tris PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 μ m filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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