

CD16a Protein, Human, Recombinant (F176V, His) V2

General Information

Synonyms:	Fc gamma RIIIa;CD16A;FCRIII;Fc γ RIIIa;FCG3;FCR-10;CD16;FCGR3;IMD20;FCRIIIA;FCGRIII;IGFR3;Fc fragment of IgG, low affinity IIIa, receptor (CD16a)
Protein Construction:	Gly17-Gln208 (V176)
Species:	Human
Expression Host:	HEK293 Cells
Accession:	AAH17865
Molecular Weight:	23.4 kDa (Predicted); 45-60 kDa (Due to glycosylation)

QC Testing

Biological Activity:	Immobilized Human Fc gamma RIIIA (V176), His Tag at 0.5 $\mu\text{g/ml}$ (100 $\mu\text{l/well}$) on the plate. Dose response curve for Anti-Fc gamma RIIIA Antibody, hFc Tag with the EC50 of 8.8 ng/ml determined by ELISA. (QC Test) Loaded Human Fc gamma RIIIA (V176), His Tag on Anti-His-Biosensor can bind Trastuzumab, hFc Tag with an affinity constant of 96.30 nM as determined in BLI assay (Gator® Prime).
Purity:	> 95% as determined by Bis-Tris PAGE; > 95% as determined by HPLC
Endotoxin:	< 0.1 EU/ μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 μm 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 sterile deionized water. The product concentration should not be less than 100 $\mu\text{g/mL}$. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.
Stability & Storage:	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 RIIIA/CD16a Protein is a receptor for the Fc region of IgG. Binds complexed or aggregated IgG and also monomeric IgG. Mediates antibody-dependent cellular cytotoxicity (ADCC) and other antibody-

dependent responses, such as phagocytosis.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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