

CD32B/Fcgr2b Protein, Cynomolgus, Recombinant (His)

General Information

Synonyms:	Fc fragment of IgG, low affinity IIb, receptor (CD32)
Protein Construction:	Ala46-Pro224
Species:	Cynomolgus
Expression Host:	HEK293 Cells
Accession:	Q8SPW3
Molecular Weight:	21 kDa (Predicted); 33-40 kDa (Due to glycosylation)

QC Testing

Biological Activity:	Trastuzumab captured on CM5 Chip via Protein A can bind Cynomolgus Fc gamma RIIb, His Tag with an affinity constant of 2.72 μ M as determined in SPR assay (Biacore T200).
Purity:	> 95% as determined by Tris-Bis 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

The Fc gamma Rs have been divided into three classes based on close relationships in their extracellular domains; these groups are designated Fc gamma RI (also known as CD64), Fc gamma RII (CD32), and Fc gamma RIII (CD16). Each group may be encoded by multiple genes and exist in different isoforms depending on species and cell type. The CD64 proteins are high affinity receptors (\sim 10e-8-10e-9 M) capable of binding monomeric IgG, whereas the CD16 and CD32 proteins bind IgG with lower affinities (\sim 10e-6-10e-7 M) only recognizing IgG aggregates

surrounding multivalent antigens.

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