

CD32B/Fcgr2b Protein, Human, Recombinant (His)

General Information

Synonyms:	FCG2;IgG Fc Receptor II-b;CDw32;Low Affinity Immunoglobulin Gamma Fc Region Receptor II-b;Low Affinity Immunoglobulin γ Fc Region Receptor II-b;FCGR2B;Fc- γ -RIIb;FcRII-b;Fc-Gamma RII-b;Fc-Gamma-RIIb;Fc- γ RII-b;IGFR2;CD32
Protein Construction:	Thr43-Pro217
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P31994
Molecular Weight:	22-30 KDa (reducing condition)
AA Sequence:	Thr43-Pro217

QC Testing

Biological Activity:	Loaded Human IgG1 Fc on Protein-A Biosensor, can bind Human CD32b-His with an affinity constant of 0.593 μ M as determined in BLI assay. (Regularly tested)
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/ μ g (1 EU/ μ g) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μ m filter, containing 20 mM PB, 150 mM NaCl, pH 7.2.

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:

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

Fc γ RIIB is a low affinity receptor that recognizes the Fc portion of IgG. The human CD32 group consists of Fc γ RIIA, Fc γ RIIB, and Fc γ RIIC proteins that share 94-99% sequence identity in their extracellular domains but differ substantially in their transmembrane and cytoplasmic domains. Fc γ RII protein is expressed on cells of both

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myeloid and lymphoid lineages as well as on cells of non-hematopoietic origin. FcγRIIB has an intrinsic cytoplasmic immunoreceptor tyrosine-based inhibitory motif (ITIM) and delivers an inhibitory signal upon ligand binding. Ligation of FcγRIIB on B cells down-regulates antibody production and in some circumstances may promote apoptosis. Co-ligation of FcγRIIB on dendritic cells inhibits maturation and blocks cell activation. FcγRIIB may also be a target for monoclonal antibody therapy for malignancies. FcγRIIB plays an important negative-regulating role through modulating the signals from activation receptors.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481