

## CD32B/Fcgr2b Protein, Human, Recombinant (His & Avi), Biotinylated

### General Information

Synonyms:	FCGR2;FCGR21;CD32A;FCG2;CDw32;CD32B;FcGR;FCGR2A;CD32;Fc gamma RIIB;Fc $\gamma$ RIIB; IGFR2;Fc gamma RII;Fc fragment of IgG, low affinity IIb, receptor (CD32);Fc $\gamma$ RII
Protein Construction:	A DNA sequence encoding the extracellular domain (Ala 46-Ile 224) of mature human CD32b (NP_001002274.1) protein was fused with a signal peptide at the N-terminus and a c-terminal polyhistidine tagged AVI tag at the C-terminus. The expressed protein was biotinylated in vivo by the Biotin-Protein ligase (BirA enzyme) which is co-expressed. Predicted N terminal: Ala 46
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P31994-2
Molecular Weight:	24 kDa (predicted); 35 kDa (reducing condition, due to glycosylation)

### QC Testing

Biological Activity:	Loaded Biotinylated Human Fc $\gamma$ RIIB/C / CD32b/c protein (His & Avi Tag) on SA Biosensor, can bind Bevacizumab (IgG1) with an affinity constant of 1.2 $\mu$ M as determined in a BLI assay (QC tested).
Purity:	> 95 % as determined by SDS-PAGE. > 90 % as determined by SEC-HPLC
Endotoxin:	< 1.0 EU/ $\mu$ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 $\mu$ m filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

### Preparation and Storage

#### Reconstitution:

Reconstituted with sterile deionized water to 0.25 mg/mL. Reconstitution conditions may vary depending on the lot.

#### 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.

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