

## CD16b Protein, Human, Recombinant (NA2,His & Avi), Biotinylated

### General Information

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|-----------------------|---|
| Synonyms:             | Fc $\gamma$ RIIIb;Fc gamma RIIIb;CD16;CD16b;FCRIII;FCRIIIb;Fc fragment of IgG receptor IIIb;FCG3;FCR-10;FCGR3   |
| Protein Construction: | A DNA sequence encoding the human FCGR3B (O75015.2) (Met1-Ser200) was expressed with a c-terminal polyhistidine tagged AVI tag at the C-terminus (AVI-his). The expressed protein was biotinylated in vivo by the Biotin-Protein ligase (BirA enzyme) which is co-expressed. Predicted N terminal: Gly 17 |
| Species:              | Human   |
| Expression Host:      | HEK293 Cells  |
| Accession:            | O75015.2  |
| Molecular Weight:     | 24.1 kDa (predicted); 40-50 kDa (reducing condition, due to glycosylation)  |

### QC Testing

|                      |   |
|----------------------|---|
| Biological Activity: | 1.Loaded Biotinylated Human Fc $\gamma$ RIIIB / CD16b (NA2) recombinant protein (His & Avi Tag) on SA Biosensor, can bind Bevacizumab (IgG1) with an affinity constant of 3.6 $\mu$ M as determined in a BLI assay.                       |
| Purity:              | > 95 % as determined by SDS-PAGE. > 95 % 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

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|----------------------|--|
| Reconstitution:      | A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.  |
| 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.<br><small>Actual storage temperature shall be subject to the COA.</small> |
| Shipping:            | In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.   |

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