# Active Recombinant Human CD16a protein, His-tagged, Biotinylated

**Cat. No.** CD16a-0235H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Biotinylated Recombinant Human CD16a protein(P08637-1)(Met1-Gln208,F176V), fused with His tag, was expressed in HEK293. |
| **Species** | Human |
| **Source** | HEK293 |
| **ProteinLength** | Met1-Gln208,F176V |
| **Form** | Lyophilized from sterile PBS, pH 7.4Please contact us for any concerns or special requirements. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. |
| **Bio-activity** | 1.Immobilized Biotinylated Human FcγRIIIA / CD16a (V176) recombinant protein (His & Avi Tag) at 10 μg/mL can bind recombinant human IgG1 (Fc) with a linear range of 0.31-5.0 μg/mL.2.Loaded Biotinylated Human FcγRIIIA / CD16a (V176) recombinant protein (His & Avi Tag) on SA Biosensor, can bind Bevacizumab (IgG1) with an affinity constant of 3.3 μM as determined in a BLI assay (ForteBio Octet Red384).3.Loaded Biotinylated Human FcγRIIIA / CD16a (V176) recombinant protein (His & Avi Tag) on SA Biosensor, can bind Conbercept with an affinity constant of 0.1 μM as determined in a BLI assay. |
| **Molecular Mass** | The secreted recombinant human CD16a consists of 227 amino acids and predicts a |

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| | molecular mass of 25.6 KDa. By SDS-PAGE under reducing conditions, the apparent molecular mass of the protein is approximately 48 KDa due to glycosylation. |
| **Endotoxin** | < 1.0 EU per μg of the protein as determined by the LAL method |
| **Purity** | > 95 % as determined by SDS-PAGE. > 95 % as determined by SEC-HPLC |
| **Storage** | Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |
| **Reconstitution** | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents. |
| **Conjugation** | Biotin |

## GENE INFORMATION

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| **Official Symbol** | CD16a |

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