

# Human CD16a/FCGR3A (176 Phe, His & AVI Tag) recombinant protein



Catalog Number: 504241

## General Information

### Gene Name Synonym

CD16a antigen; Fc-gamma RIII-alpha; FcR-10; IgG Fc receptor III-2

### Protein Construction

A DNA sequence encoding the extracellular domain (Met 1-Gln 208) of human CD16a (P08637-1) was fused with 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. It is identical to FCGR3A158F/V in the reference.

### Organism

Human

### Expression Host

Human Cells

## QC Testing

### Activity

1. Measured by its ability to bind recombinant human IgG1 in a functional ELISA.
2. Measured by its binding ability in a functional ELISA. Immobilized Human IgG1 at 10 µg/ml (100 µl/well) can bind Human CD16a(Cat:503735-B). The EC<sub>50</sub> of Human CD16a(Cat:503735-B) is 2.4 - 5.7 µg/ml.
3. Labeling ratio of biotin to protein: 0.7-1.

### Purity

> 90 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per µg of the protein as determined by the LAL method

### Stability

Samples are stable for up to twelve months from date of receipt at -70°C

### Predicted N terminal

Gly 17

### Molecular Mass

The secreted recombinant human CD16a consists of 223 amino acids and predicts a molecular mass of 25.1 kDa. By SDS-PAGE under reducing conditions, the apparent molecular mass of the protein is approximately 48 kDa due to glycosylation.

### Formulation

Lyophilized from sterile PBS, pH 7.4

1. 5 % trehalose and mannitol are added as protectants before lyophilization.
2. Please contact us for any concerns or special requirements.

## Usage Guide

### Storage

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

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

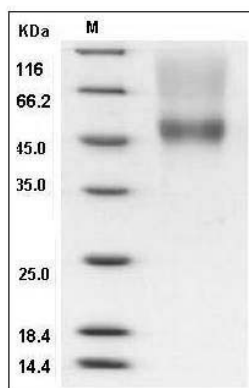
### SDS-PAGE

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Human CD16a / FCGR3A Protein (176 Phe, His &  
AVI Tag), Biotinylated SDS-PAGE