

# Human CD16a/FCGR3A (176 Val, His Tag) recombinant protein



Catalog Number: 504253

## 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 (AAH17865.1) was expressed, with a C-terminal polyhistidine tag. It is identical to FCGR3A158F/V in the reference.

### Organism

Human

### Expression Host

CHO Cells

## QC Testing

### Activity

Measured by its binding ability in a functional ELISA. Immobilized human CD16a-His (Cat:504253) at 10 µg/ml (100 µl/well) can bind recombinant human IgG1 (Fc) (Cat:500583). The  $EC_{50}$  of human IgG1 (Fc) (Cat:500583) is 0.40-0.92 µg/ml.

### Purity

> 95 % 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 203 amino acids and predicts a molecular mass of 23.3 KDa. By SDS-PAGE under reducing conditions, the apparent molecular mass of rhCD16a is approximately 40-45 KDa due to glycosylation.

### Formulation

Lyophilized from sterile PBS, pH 7.2  
1. 5 % trehalose and mannitol are added as protectants before lyophilization.  
2. Please contact us for any concerns or special requirements.

## Usage Guide

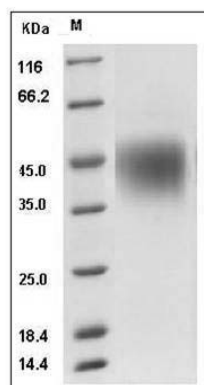
### Storage

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



Human CD16a / FCGR3A Protein (176 Val, His Tag) SDS-PAGE