

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



Catalog Number: 503246

## 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

Human Cells

## QC Testing

### Activity

1. Using the Octet RED System, the affinity constant (Kd) of CD16a bound to Human IgG1 was 80nM.

2. Measured by its binding ability in a functional ELISA.

Immobilized human CD16a-His(F158V)(Cat:503246) at 10ug/ml(100ul/well) can bind human IgG1 with a linear range of 0.00128-0.8 µg/ml.

### Purity

> 97 % 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 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.

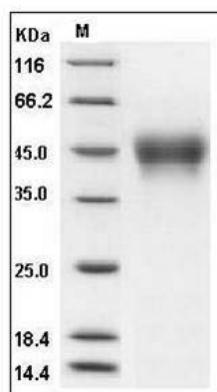
### SDS-PAGE

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