

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



Catalog Number: 503372

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) precursor 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

Measured by its binding ability in a functional ELISA. Immobilized human CD16a-His (Cat:503372) at 10 µg/ml (100 µl/well) can bind biotinylated human IgG1, The EC₅₀ of biotinylated human IgG1 is 0.90-2.30 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 has a predicted molecular mass of 23.3 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rh CD16a is approximately 45-50 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

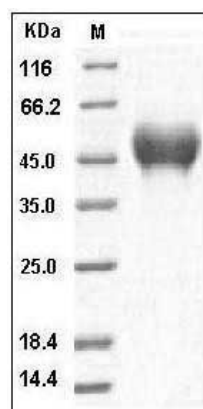
Storage

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



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