

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

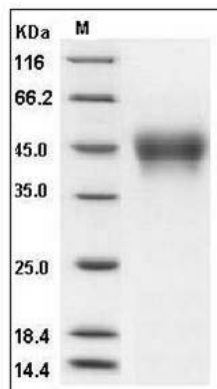
Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

SDS-PAGE

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