

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



Catalog Number: 504307

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 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 CD16a-AVI-His (Cat:500556-B) at 10 µg/ml (100µl/well) can bind recombinant human IgG1 (Fc) (Cat:500583) with a linear range of 0.31-5 µg/ml.
3. Labeling ratio of biotin to protein: 1.5

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 227 amino acids and predicts a molecular mass of 25.6 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

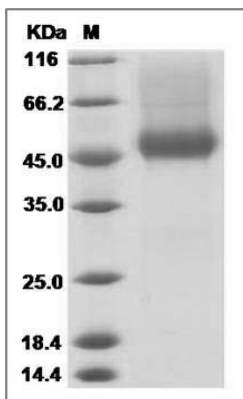
Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

SDS-PAGE

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