Rhesus CD16 / FCGR3 Protein (His & AVI Tag), Biotinylated

Catalog Number: 90013-C27H-B

General Information

Gene Name Synonym:
FCGR3

Protein Construction:
A DNA sequence encoding the rhesus CD16 (NP_001258584.1) extracellular domain (Met 1- Gin 208) 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.

Source: Rhesus
Expression Host: HEK293 Cells

QC Testing

Purity: > 92 % as determined by SDS-PAGE

Bio Activity:
1. Measured by its ability to bind human IgG1 in a functional ELISA. 2. Labeling ratio of biotin to protein: 0.4

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 recombinant rhesus CD16 consists of 223 amino acids and has a calculated molecular mass of 25.3 kDa.

Formulation:
Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, manitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:
Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:

Protein Description

Fc receptors bind the most common class of antibody, IgG, are called Fc gamma receptors (FcyR). FcyR is divided into three classes, Fc γ RI (CD64), Fc γ RI (CD32), and Fc γ RII (CD16). CD16 protein is a multifunctional, low/intermediate affinity receptor, which belongs to the immunoglobulin superfamily. It is found on the surface of natural killer cells, neutrophil polymorphonuclear leukocytes, monocytes and macrophages. Mouse CD16 is encoded by a single gene, while, human CD16 is expressed as two distinct forms (CD16a/FcyRIIIa and CD16b/FcyRIIib) encoded by two different highly homologous genes in a cell type-specific manner. CD16 is involved in phagocytosis, secretion of enzymes, inflammatory mediators, antibody-dependent cellular cytotoxicity (ADCC), and clearance of immune complexes.

References


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