Mouse CD16 / FcGR3 Protein (His & AVI Tag), Biotinylated

Catalog Number: 50326-M27H-B

General Information

Gene Name Synonym:
CD16

Protein Construction:
A DNA sequence encoding the mouse FcGR3 (P08508.1) (Met1-Thr215) was expressed 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: Mouse
Expression Host: HEK293 Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE.

Endotoxin:
< 1.0 EU per μg 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: Ala 31

Molecular Mass:
The recombinant mouse FcGR3 consists of 211 amino acids and predicts a molecular mass of 24.4 kDa.

Formulation:
Lyophilized from sterile PBS, pH 7.4.

Formulation:
Normally 5 % - 8 % trehalose, mannitol 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 (FγR). FγR is divided into three classes, Fcγ RI (CD64), Fcγ RII (CD32), and Fcγ 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/FcγRIIIa and CD16b/FcγRIIib) 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