

Recombinant Mouse Fc-gamma RIII/CD16 Protein

Catalog No.: RP00761 Recombinant 1 Publications

Sequence Information

Species Gene ID Swiss ProtMouse 14131 P08508

Tags

C-His

Synonyms

Low affinity immunoglobulin gamma Fc region receptor III; Fcgr3; Fc gamma Receptor III; CD-antigen 16; CD16; FcRIII; IgG Fc receptor III

Product Information

Source Purification HEK293 cells ≥ 95 % as

determined by SDS-

PAGE.

Calculated MW Observed MW

22 kDa 35-40 kDa

Endotoxin

< 1 EU/µg of the protein by LAL method.

Formulation

Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.Contact us for customized product form or formulation.

Reconstitution

Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

Low affinity immunoglobulin gamma Fc region receptor III (Fc gamma RIII/CD16) is a member of the Igsuperfamily. Based on close relationships in their extracellular domains, the Fc gamma Rs have been dividedinto three classes composing of Fc gamma RI (CD64), Fc gamma RII (CD32), and Fc gamma RIII (CD16). Eachgroup may be encoded by multiple genes and exist in different isoforms depending on species and cell type. Mouse CD16 is a type I transmembrane protein having two extracellular Ig-like domains consisting ofimmunoglobulin domain, repeat, signa and transmembrane, transmembrane helix. It is expressed on a variety of myeloid and lymphoid cells and associates with Fc R gamma to deliver an activating signal upon ligandbinding. Fcgr3 is IgG binding and activation or inhibition of immune responses such as antibody-dependent cellular cytotoxicity, phagocytosis, cell surface receptor signaling pathway and positive regulation of typel/IIa/III hypersensitivity.

Basic Information

Description

Recombinant Mouse Fc-gamma RIII/CD16 Protein is produced by Human cells expression system. The target protein is expressed with sequence (Ala31-Thr215) of mouse Fc γ RIIIA/FCGR3/CD16 (Accession #P08508) fused with a 6×His tag at the C-terminus.

Bio-Activity

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

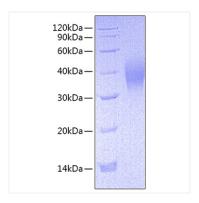
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Validation Data



Recombinant Mouse Fc-gamma RIII/CD16 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.