

Recombinant Mouse Fc gamma RI/FCGR1/CD64 Protein

Catalog No.: RP00710 **Recombinant**

Sequence Information

Species Mouse **Gene ID** 14129 **Swiss Prot** P26151

Tags

C-His

Synonyms

High affinity immunoglobulin gamma Fc receptor I; IgG Fc receptor I; Fc-gamma RI; FcRI; CD64; Fcgr1

Background

CD64, also known as Fc-gamma receptor 1 (Fc γ RI), is a type of integral membrane glycoprotein that binds monomeric IgG-type antibodies with high affinity. After binding IgG, CD64 interacts with an accessory chain known as the common γ chain (γ chain), which possesses an ITAM motif that is necessary for triggering cellular activation. CD64 is composed of a signal peptide, three extracellular immunoglobulin domains of the C2-type used to bind antibody, a hydrophobic transmembrane domain, and a short cytoplasmic tail. CD64 mediates endocytosis, phagocytosis, antibody-dependent cellular cytotoxicity, cytokine release, and superoxide production. It is normally expressed on the surfaces of monocytes and macrophages.

Basic Information

Description

Recombinant Mouse Fc gamma RI/FCGR1/CD64 Protein is produced by Human Cells expression system. The target protein is expressed with sequence (Glu25-Pro297) of mouse Fc γ RI/FCGR1A/CD64 (Accession #P26151) fused with a 6xHis 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.

Product Information

Source HEK293 cells **Purification** $\geq 95\%$ as determined by SDS-PAGE.

Calculated MW 31.5 kDa **Observed MW** 40-60 kDa

Endotoxin

< 1 EU/ μ g of the protein by LAL method.

Formulation

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

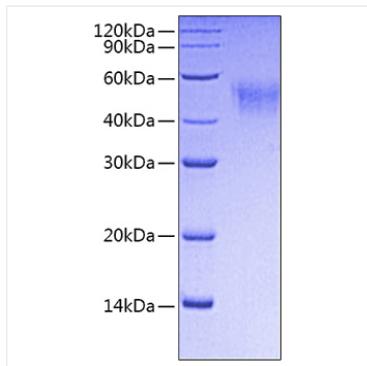
Reconstitution

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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize freeze-thaw cycles.

Contact

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Validation Data



Recombinant Mouse Fc gamma RI/FCGR1/CD64 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.