

# Recombinant Mouse Fc gamma RI/FCGR1/CD64 Protein

Catalog No.: RP00710

## Sequence Information

**Species**      **Gene ID**  
Mouse            14129

**Swiss Prot**    **Tags**  
P26151          C-His

### Synonyms

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

## Product Information

**Source**            **Purification**  
HEK293 cells      ≥ 95 % as determined by SDS-PAGE.

**Calculated MW** **Observed MW**  
31.5 kDa            40-60 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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## 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 6×His tag at the C-terminus.

### Activity

### Shipping

Lyophilized proteins are shipped at ambient temperature.  
Liquid proteins are shipped at frozen temperature with dry ice.  
Upon receipt, store it immediately at the temperature recommended below.

### Storage

Store at -20°C

### Operational Notes

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

## Contact

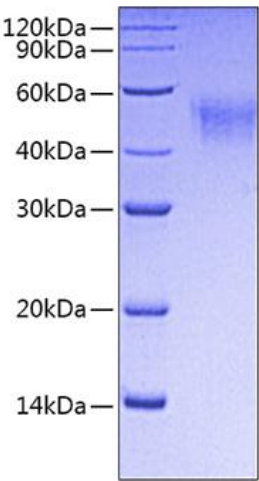
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**Validation Data**

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