

## General Information

### Gene Name Synonym

Protein Fcgr1a

### Protein Construction

A DNA sequence encoding the rat FCGR1A (NP\_001094306.1) extracellular domain (Met 1-Pro 285) was expressed, fused with a polyhistidine tag at the C-terminus.

### Organism

Rat

### Expression Host

Human Cells

## QC Testing

### Activity

Measured by its binding ability in a functional ELISA.

Immobilized Rat CD64-his at 10 µg/ml (100 µl/well) can bind biotinylated human IgG1. The EC<sub>50</sub> of biotinylated human IgG1 is 0.04-0.08 µg/ml.

### Purity

> 95 % as determined by SDS-PAGE

### 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

Val 17

### Molecular Mass

The recombinant rat FCGR1A comprises 280 amino acids and predicts a molecular mass of 31.6 kDa. The apparent molecular mass of the rat FCGR1A is approximately 40-42 kDa in SDS-PAGE under reducing conditions due to glycosylation.

### Formulation

Lyophilized from sterile PBS, pH 7.4

1. 5 % trehalose and mannitol are added as protectants before lyophilization.

2. Please contact us for any concerns or special requirements.

## Usage Guide

### Storage

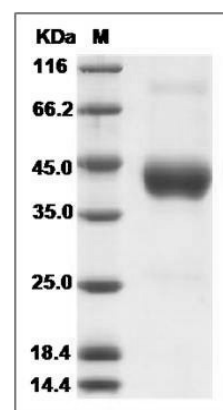
Store it under sterile conditions at -20°C to -80°C.

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

### SDS-PAGE



Rat CD64 / FCGR1A Protein (His Tag) SDS-PAGE