

# Mouse CD64/FCGR1 (His & AVI Tag) recombinant protein



Catalog Number: 503215

## General Information

### Gene Name Synonym

Fc-gamma RI

### Protein Construction

A DNA sequence encoding the extracellular domain (Met 1-Pro 297) of mouse FCGR1 (NP\_034316.1) was fused 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.

### Organism

Mouse

### Expression Host

Human Cells

## QC Testing

### Activity

1. Measured by its ability to bind mouse APCs in a functional ELISA.
2. Labeling ratio of biotin to protein: 1.1

### Purity

> 90 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per  $\mu\text{g}$  of the protein as determined by the LAL method

### Stability

Samples are stable for up to twelve months from date of receipt at  $-70^{\circ}\text{C}$

### Predicted N terminal

Glu 25

### Molecular Mass

The recombinant mouse FCGR1 consists of 308 amino acids after removal of the signal peptide and has a predicted molecular mass of 34.3 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rm FCGR1 is approximately 50-55 kDa 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

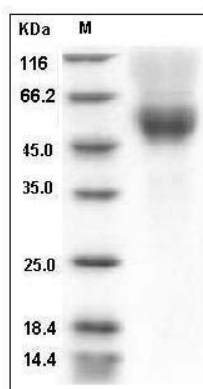
### Storage

Store it under sterile conditions at  $-20^{\circ}\text{C}$  to  $-80^{\circ}\text{C}$ . 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



Mouse CD64 / FCGR1 Protein (His & AVI Tag), Biotinylated SDS-PAGE