

## General Information

### Protein Construction

A DNA sequence encoding the rat IFNG (P01581) (Met 1-Cys 156) was fused with the Fc region of human IgG1 at the C-terminus.

### Organism

Rat

### Expression Host

Human Cells

## QC Testing

### Activity

1. Measured in antiviral assays using L929 cells infected with vesicular stomatitisvirus (VSV). The ED<sub>50</sub> for this effect is typically 1-5 ng/mL.
2. Measured by its binding ability in a functional ELISA. Immobilized rat IFNG-Fc (cat:500370) at 10 µg/ml (100 µl/well) can bind biotinylated rat IFNGR-Fc (Cat:502417). The EC<sub>50</sub> of biotinylated rat IFNGR-Fc (Cat:502417) is 20.1-46.9 ng/ml.

### Purity

> 92 % 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

Gln 23

### Molecular Mass

The secreted recombinant rat IFNG/Fc is a disulfide-linked homodimer. The reduced monomer comprises 375 amino acids and predicts a molecular mass of 42.5 kDa. The apparent molecular mass of the rat IFNG/Fc monomer is approximately 52 kDa in SDS-PAGE under reducing conditions.

### 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

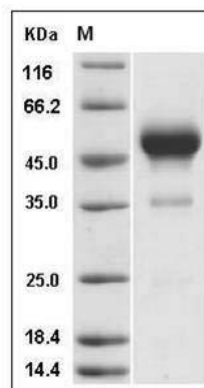
### Storage

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 IFNG / Interferon Gamma Protein (Fc Tag)  
SDS-PAGE