

## General Information

### Protein Construction

A DNA sequence encoding the mouse IFNG (NP\_032363.1) (Met1-Cys155) was expressed and purified.

### Organism

Mouse

### Expression Host

Human Cells

## QC Testing

### Activity

1. Measured by its binding ability in a functional ELISA.
2. Immobilized mouse IFNG at 10 µg/mL (100 µL/well) can bind mouse IFNGR1-Fc (Cat:503623). The EC<sub>50</sub> of mouse IFNGR1-Fc (Cat:503623) is 0.04-0.08 µg/mL.
3. Measured in antiviral assays using L929 cells infected with vesicular stomatitis virus. The ED<sub>50</sub> for this effect is typically 0.5-2 ng/mL.

### Purity

(80+7.6) % 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

His 23

### Molecular Mass

The recombinant mouse IFNG consists of 133 amino acids and predicts a molecular mass of 15.5 kDa. It migrates as approximately 19.6 and 15.4 kDa band 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

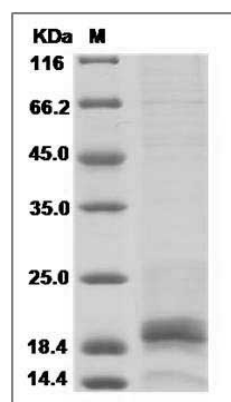
### Storage

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



Mouse IFNG / Interferon Gamma Protein SDS-PAGE