

# Recombinant Rat IFN-gamma Protein

Catalog No.: RP01739 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Rat	25712	P01581

### Tags

C-6His

### Synonyms

If2f; IFNG2[IFNG]IFN-gamma

## Product Information

Source	Purification
HEK293 cells	

Calculated MW	Observed MW
16.34 kDa	15-25 kDa

### Endotoxin

&lt;0.01EU/μg

### Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

### Reconstitution

Centrifuge the vial 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.

## Contact

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## Background

Interferon-gamma (IFN-gamma) is a secreted protein which belongs to the type II interferon family. Recombinant Human IFN-gamma is a 16.8 kDa protein containing 143 amino acid residues. IFN-gamma is produced by a variety of immune cells under inflammatory conditions, notably by T cells and NK cells. IFN-gamma, in addition to having antiviral activity, has important immunoregulatory functions. Interferon-gamma is a central regulator of the immune response and signals via the Janus Activated Kinase (JAK)-Signal Transducer and Activator of Transcription (STAT) pathway.

## Basic Information

### Description

Recombinant Rat IFN-gamma Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln23-Cys156) of rat IFN-gamma (Accession #NP\_620235.1) fused with and a 6xHis tag at the C-terminus.

### Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human IFNGR1 (Catalog #RP00200) at 2 μg/mL (100 μL/well) can bind Rat IFN-γ (Catalog #RP01739) with a linear range of 0.06-2.00 μg/mL.

### Storage

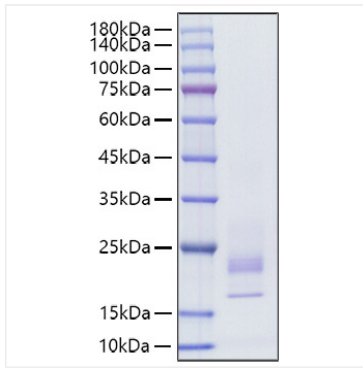
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

## Validation Data

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Recombinant Rat IFN-gamma Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 18-21 kDa.