

# Recombinant Rat IFN-gamma Protein

Catalog No.: RP01739

## Sequence Information

### Species Gene ID

Rat 25712

### Swiss Prot Tags

P01581 C-6His

### Synonyms

If2f; IFNG2; IFNG; IFN-gamma

## Product Information

### Source Purification

HEK293 cells ≥ 85% as determined by SDS-PAGE.

### Calculated MWObserved MW

16.34 kDa 15-25 kDa

### Endotoxin

< 0.01 EU/μg of the protein by LAL method

### 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.

## 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 6×His tag at the C-terminus.

### 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.

### Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

### Storage

Store at -20°C

### Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

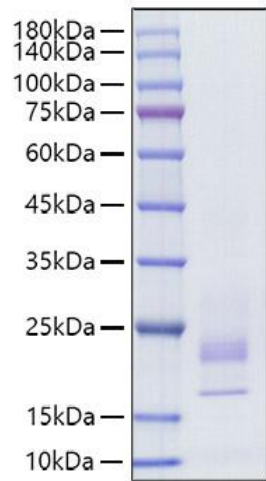
## Contact

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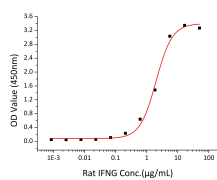
✉ | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn)

🌐 | [www.abclonal.com.cn](http://www.abclonal.com.cn)

## Validation Data



Recombinant Rat IFN- $\gamma$  Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized Human IFNGR1 (Catalog #RP00200) at 2  $\mu$ g/mL (100  $\mu$ L/well) can bind Rat IFN- $\gamma$  (Catalog #RP01739) with a linear range of 0.06-2.00  $\mu$ g/mL.