

# Recombinant Rat IFN-gamma Protein

Catalog No.: RP01739 Recombinant

## **Sequence Information**

Species Gene ID Swiss Prot Rat 25712 P01581

Tags

C-6His

**Synonyms** 

## **Product Information**

Source Purification

HEK293 cells ≥ 85% as determined by SDS-

PAGE.

Calculated MW Observed MW

16.34 kDa 15-25 kDa

**Endotoxin** 

< 0.01 EU/ $\mu$ g of the protein by LAL method

#### **Formulation**

Lyophilized from a  $0.22 \mu m$  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 stablizer (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  $6\times His$  tag at the C-terminus.

#### **Bio-Activity**

Measured by its binding ability in a functional ELISA. 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.

## Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

#### Storage

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

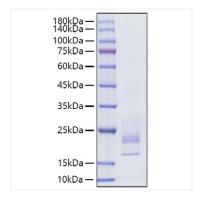
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

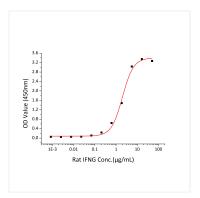
#### **Operational Notes**

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

## **Validation Data**



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



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