

For Research Use Only

# Recombinant Rat IFN-gamma R1 protein (hFc Tag)



Catalog Number: Eg0961

## Basic Information

**Species:**  
Rat

**Purity:**  
>90 %, SDS-PAGE

**Tag:**  
hFc Tag

## Technical Specifications

**Purity:**  
>90 %, SDS-PAGE

**Endotoxin Level:**  
<0.1 EU/μg protein, LAL method

**Source:**  
HEK293-derived Rat IFN-gamma R1 protein Ala17-Ser241 (Accession# Q9QZ62) with a human IgG1 Fc tag at the C-terminus.

**GeneID:**  
116465

**Accession:**  
Q9QZ62

**Predicted Molecular Mass:**  
52.2 kDa

**SDS-PAGE:**  
55-70 kDa, reducing (R) conditions

**Formulation:**  
Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

### Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

### Shipping:

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

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

Interferon-gamma (IFN-γ) is a cytokine critical for innate and adaptive immunity against viral and intracellular bacterial infections and for tumor control. Cellular responses to IFN-γ are activated through its interaction with a heterodimeric receptor consisting of two subunits, IFNGR1 (CD119) and IFNGR2. IFNGR1 is the ligand-binding subunit which binds IFN-γ with high affinity, whereas IFNGR2 serves as the accessory subunit. Two subunits bind one IFN-γ dimer. Defects in IFNGR1 are a cause of mendelian susceptibility to mycobacterial disease (MSMD), also known as familial disseminated atypical mycobacterial infection.

## References

1. Der SD, et al. (1998) Proc Natl Acad Sci. 95(26):15623-8.
2. Michalska A, et al. (2018) Front Immunol. 9:1135.
3. Gocher AM, et al. (2022) Nat Rev Immunol. 22(3):158-72.
4. Schoenborn, JR, et al. (2007) Adv Immunol. 96:41-101.
5. Larkin, J, et al. (2000) J Interf Cytok Res. 20(6):565-76.

## Synonyms

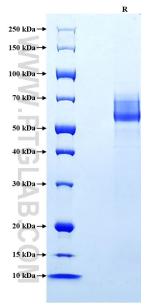
Ifngr, Ifngr1, Interferon-gamma receptor

For technical support and original validation data for this product please contact

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## Selected Validation Data



Purity of Recombinant Rat IFN-gamma R1 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.