

For Research Use Only

Recombinant Rat IFN-gamma protein (His Tag)



Catalog Number: Eg0400

Basic Information

ED50:
6-22 ng/mL

GeneID:
25712

Species:
Rat

Accession:
P01581

Purity:
>95 %, SDS-PAGE

Technical Specifications

Purity:
>95 %, SDS-PAGE

Endotoxin Level:
<1.0 EU/ μ g protein, LAL method

Source:
HEK293-derived Rat IFN-gamma protein Gln23-Cys156 (Accession# P01581) with a His tag at the C-terminus.

Predicted Molecular Mass:
18 kDa

SDS-PAGE:
22-32 kDa, reducing (R) conditions

Formulation:
Lyophilized from sterile PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Immobilized Rat IFN-gamma (His tag) at 1 μ g/mL (100 μ L/well) can bind Rat IFN-gamma R1 (hFc tag) with a linear range of 6-22 ng/mL.

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

The IFNs were originally discovered as agents that interfere with viral replication. Initially, they were classified by the secreting cell type but are now classified into type I and type II according to receptor specificity and sequence homology. Interferon gamma (I γ) is a soluble cytokine that is the only member of the type II class of interferons. It is secreted by Th1 cells, cytotoxic T cells and NK cells. The cytokine is associated with antiviral, immunoregulatory and anti-tumor properties and is a potent activator of macrophages. It plays crucial roles in pathogen clearance. Aberrant I γ expression is associated with a number of autoinflammatory and autoimmune diseases. It has been identified in many studies as a biomarker for pleural tuberculosis (TB). Mutations in this gene are associated with aplastic anemia.

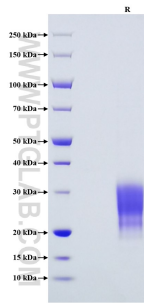
References

1. Isaacs, A. et al.(1957) The interferon Proc. R. Soc. Lond. B Biol. Sci. 147: 258-267.
2. Gray PW. et al. (1982) Nature. 298 : 859-63.
3. Bullens, D. M. et al.(2001) Int. Immunol. 13: 181-191.
4. Wang Z. et al.(2014) Biosci Biotechnol Biochem.78: 588-92.
5. Chegou NN. et al.(2012)PLoS One.7(6):e38501
6. Torok-Storb B. et al. (Blood) 69:629-33.

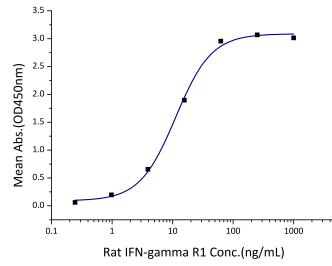
Synonyms

IFNG, IFN-gamma, IFN- γ , Interferon gamma

Selected Validation Data



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



Immobilized Rat IFN-gamma (His tag) at 1 μ g/mL (100 μ L/well) can bind Rat IFN-gamma R1 (C-hFc tag) with a linear range of 6-22 ng/mL

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

T: 027-87531629

E: Proteintech-CN@ptglab.com

W: ptgcn.com

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