Recombinant Rat IFN-gamma Protein

Catalog No.: RP01075

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Sequence Information

Species
Rat

Gene ID
25712

Swiss Prot
P01581

Tags
C-hFc&His

Synonyms
IFN-gamma,Interferon Gamma, IFNG

Product Information

Source
HEK293 cells

Purification
≥ 90 % as determined by SDS-PAGE.

Calculated MW
42.29 kDa

Observed MW
50-55 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

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.

Background

Interferon-gamma (IFN-gamma) is a secreted protein which belongs to the type II interferon family. 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 Interferon Gamma (Accession #NP_620235.1) fused with an Fc, 6×His tag at the C-terminus.

Activity
1.Measured by its binding ability in a functional ELISA. Immobilized recombinant Human IFN-gamma R1 at 3 μg/mL (100 μL/well) can bind recombinant Rat IFNG, the EC_{50} of Rat IFNG is 1 μg/mL.

2.Measured by its binding ability in a functional ELISA. Immobilized recombinant Mouse IFNGR1 at 0.2 μg/mL (100 μL/well) can bind recombinant Rat IFNG, the EC_{50} of Rat IFNG is 1.94 ng/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℃

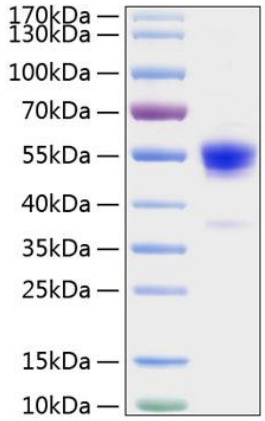
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

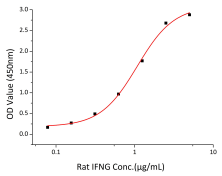
400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.

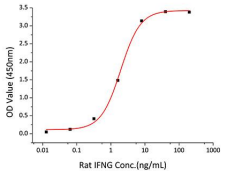
Validation Data



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



Immobilized recombinant Human IFN-gamma R1 at 3μg/mL (100μL/well) can bind recombinant Rat IFNG, the EC_{50} of Rat IFNG is 1 μg/mL.



Immobilized Recombinant Mouse IFNGR1 at 0.2 μg/mL (100 μL/well) can bind recombinant Rat IFNG, the EC_{50} of Rat IFNG is 1.94 ng/mL.