

Recombinant Mouse IFN-gamma Protein

Catalog No.: RP01070

Sequence Information

Species	Gene ID
Mouse	15978
Swiss Prot	Tags
P01580	C-hFc&His

Synonyms

IFG,IFI,IFN gamma,Interferon Gamma,IFNG

Product Information

Source	Purification
HEK293 cells	≥ 90 % as determined by SDS-PAGE; ≥ 90 % as determined by HPLC.

Calculated MW Observed MW

44.70 kDa 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 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. 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 Mouse IFN-gamma Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met1–Cys155) of mouse Interferon Gamma (Accession #NP_032363.1) fused with an Fc, 6×His tag at the C-terminus.

Activity

1. Measured by its binding ability in a functional ELISA. Immobilized recombinant Mouse IFNGR1 at 0.2 μg/mL (100 μL/well) can bind recombinant Mouse IFNG, the EC₅₀ of Mouse IFNG is 2.2 ng/mL.
2. M0 macrophages (Catalog # RP01216S) can be induced differentiation into M1 macrophages (CD86+CD206-) by Recombinant Mouse IFN-gamma Protein (50ng/mL) and LPS (100ng/mL).
3. Measured by its ability to inhibit the proliferation of murine WEHI-279 cells. The ED50 for this effect is 0.44–1.76 ng/mL, corresponding to a specific activity of 5.68×10⁵–2.27×10⁶ units/mg.

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.

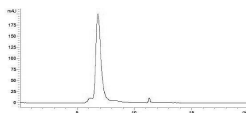
Contact

☎ | 400-999-6126

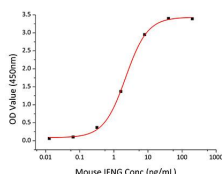
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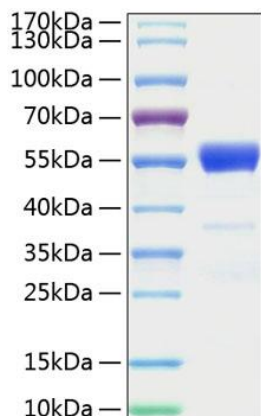
Validation Data



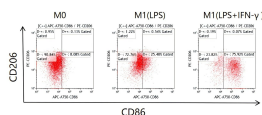
The purity of Recombinant Mouse IFN-gamma Protein is greater than 90% as determined by SEC-HPLC.



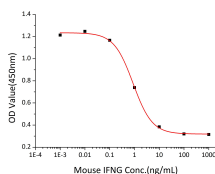
Immobilized recombinant Mouse IFNGR1 at 0.2 μ g/mL (100 μ L/well) can bind recombinant Mouse IFNG, the EC_{50} of Mouse IFNG is 2.2ng/mL.



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



M0 macrophages(Catalog # RP01216S) can be induced differentiation into M1 macrophages(CD86+CD206+) by Recombinant Mouse IFN-gamma Protein (50ng/mL) and LPS (100ng/mL).



Measured by its ability to inhibit the proliferation of murine WEHI-279 cells. The ED_{50} for this effect is 0.44-1.76 ng/mL, corresponding to a specific activity of $5.68 \times 10^5 \sim 2.27 \times 10^6$ units/mg.