Recombinant Mouse IFN-gamma Protein

Catalog No.: RP01070 Re

Recombinant 4 Publications

Sequence Information

Species Gene ID Swiss Prot HEK293 cells 15978 P01580

Tags C-hFc&His

Synonyms

IFG;IFI;IFN gamma;Interferon Gamma;IFNG

Product Information

Source HEK293 cells Purification > 92% by SDS-PAGE.

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.

Contact

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www.abclonal.com

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. Interferongamma 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.

Bio-Activity

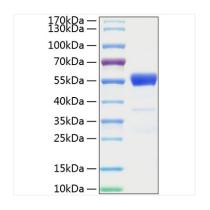
1.Measured by its binding ability in a functional ELISA. Immobilized recombinant Mouse IFNGR1 at 0.2 μ g/mL (100 μ L/well) can bind recombinant Mouse IFNG, the EC₅₀ of Mouse IFNG is 2.2 ng/mL.|2.Recombinant Mouse IFNgamma stimulates mouse bone marrow-derived macrophages and peritoneal macrophages differentiation into M1 Macrophages(classically activated macrophage). The expression of the related biological markers TNF-a, Nos2, IL-1 β , and IL-6 was detected to be significantly upregulated.]

Storage

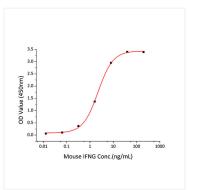
Store at -20°C.Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.
 After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.



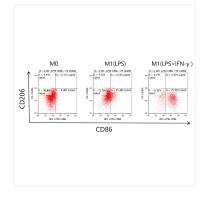
Validation Data



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



Immobilized recombinant Mouse IFNGR1 at 0.2μ g/mL (100μ L/well) can bind recombinant Mouse IFNG,the EC₅₀ of Mouse IFNG is 2.2ng/mL.



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).