

Ifng

Recombinant Mouse Interferon gamma

Catalog No.	CRI001A	Quantity:	20 µg
	CRI001B		100 µg
	CRI001C		1 mg

Alternate Names: Interferon gamma, IFN-g, IFN-gamma, IFN-γ

Description: Interferon gamma (IFN-g) is a soluble cytokine and a type II interferon. IFN-g is secreted by innate and adaptive immune cells. The active protein is a homodimer that binds to the IFN-g receptor, which triggers a cellular response to viral and microbial infections. IFN-g exerts antiproliferative, immunoregulatory and proinflammatory activities and induces the production of cytokines, upregulates the expression of class I and II MHC antigens, Fc receptor and leukocyte adhesion molecules. It modulates macrophage effector functions, influences isotype switching and potentiates the secretion of immunoglobulins by B cells. Additionally, IFN-g augments TH1 cell expansion and may be required for TH1 cell differentiation.

Mouse IFN-γ is not cross-reactive with human IFN-γ.

Gene ID: 15978

UniProt ID: P01580

Source: *E. coli*

Molecular Weight: 15.7 kDa (134 aa), monomer

Formulation: Lyophilized from a sterile-filtered aqueous solution containing 10 mM sodium phosphate, 50 mM sodium chloride, pH 7.5

Purity: ≥ 95% by reducing and non-reducing SDS-PAGE

Endotoxin Level: ≤ 0.1 EU/µg of protein by kinetic LAL analysis.

Biological Activity: ≤ 1 ng/ml, by viral CPE assay using EMC virus on L929 cells.

Specific Activity: ≥ 1 x 10⁶ U/mg

Amino Acid Sequence: MHGTVIESLE SLNNYFNSSG IDVEEKSLFL DIWRNWQKDG DMKILQSQII
SFYLRLFEVL KDNQAISNNI SVIESHLITT FFSNSKAKKD AFMSIAKFEV
NNPQVQRQAF NELIRVVHQL LPSSLRKRK RSRC

Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water to a concentration of 0.1 mg/ml. **DO NOT VORTEX.** Allow several minutes for complete reconstitution. If a precipitate is observed, centrifuge the solution thoroughly and use only the soluble fraction (removing it from the precipitate). A 10% overfill has been added to compensate for any loss of protein in the precipitate. Further dilution should be made in appropriate buffered solutions.

Storage & Stability:

Store as supplied at -20°C to -80°C for up to 1 year. Upon reconstitution, prepare working aliquots and store at -20°C to -80°C. It is recommended that a carrier protein such as 0.1% HSA or BSA is added for long term storage.

Avoid repeated freeze-thaw cycles.

Serial dilutions of Mouse IFN gamma were added to L929 cells infected with EMC virus. Cell survival was measured and compared to a known standard.

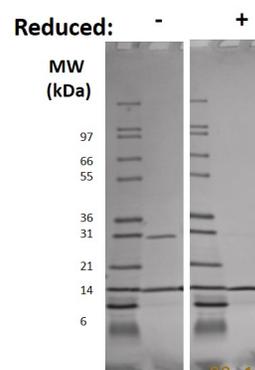
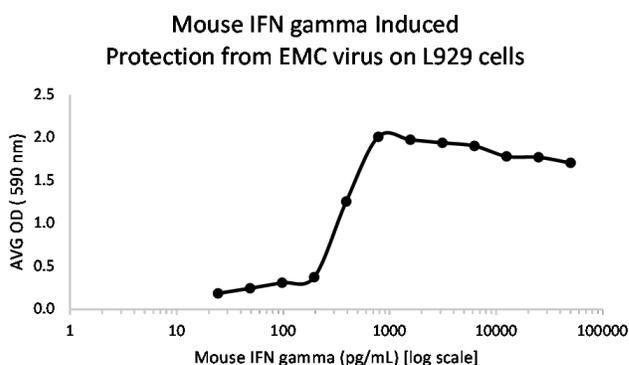
**Mouse INF gamma**

Figure: 1 ug run under (+) reducing conditions and (-) non-reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Mouse IFN gamma has a predicted MW of 15.7 kDa.

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