

## IFN g Mouse

**Description:** Interferon-gamma Mouse Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 134 amino acids and having a molecular mass of 15.6kDa. The IFN-gamma is purified by proprietary chromatographic techniques.

**Synonyms:** Immune Interferon, type II interferon, T cell interferon, MAF, IFNG, IFG, IFI, IFN-gamma.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered White lyophilized (freeze-dried) powder.

**Amino Acid Sequence:** MHGTVIESLE SLNNYFNSSG IDVEEKSLFL DIWRNWQKDG  
DMKILQSQII SFYLRLEVL KDNQAISNNI SVIESHLITT FFSNSKAKKD AFMSIAKFEV  
NNPQVQRQAF NELIRVVHQL LPESSLRKRK RSRC.

**Purity:** Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

**Formulation:**

Lyophilized from a 0.2

**Stability:**

Lyophilized Interferon-gamma although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IFN-gamma should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Solubility:**

It is recommended to reconstitute the lyophilized Interferon-gamma in sterile 18M-cm H<sub>2</sub>O not less than 100

**Introduction:**

IFN-gamma produced by lymphocytes activated by specific antigens or mitogens. IFN-gamma, in addition to having antiviral activity, has important immunoregulatory functions, it is a potent activator of macrophages, and has antiproliferative effects on transformed cells and it can potentiate the antiviral and antitumor effects of the type I interferons.

**Biological Activity:**

The specific activity as determined in a viral resistance assay is  $\leq 0.1$  ng/ml, corresponding to a specific activity of  $1 \times 10^7$  Units/mg.

**References:**

Title: Interferon- and interleukin-4 reciprocally regulate CD8 expression in CD8+ T cells. Publication: Published online before print November 6, 2008, doi: 10.1073/pnas.0809549105

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