



## RayBiotech, Inc.

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# Certificate of Analysis and Data Sheet Recombinant Mouse Interferon-gamma

**Catalog No.**  
228-10828

**Source:**  
*Escherichia Coli*

### **Synonyms**

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

### **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.

### **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 15601 Dalton.

The IFN-gamma is purified by proprietary chromatographic techniques.

### **Physical Appearance**

Sterile Filtered White lyophilized (freeze-dried) powder.

### **Formulation**

Lyophilized from a 0.2µm filtered concentrated (1mg/ml) solution in PBS, pH 7.4.

### **Solubility**

It is recommended to reconstitute the lyophilized Interferon-gamma in sterile 18MΩ-cm H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

### **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.**

**The products are furnished for LABORATORY RESEARCH USE ONLY.  
Not for diagnostic or therapeutic use.**



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### ***Purity***

Greater than 95.0% as determined by

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

### ***Amino acid sequence***

The sequence of the first five N-terminal amino acids was determined and was found to be Met-His-Gly-Thr-Val.

### ***Biological Activity***

The specific activity as determined by the cytopathic affect inhibition assay with murine NIH 3T3 cells chalenged with EMC virus was < 0.1 ng/ml, corresponding to a specific activity of 10MU/mg.

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