



## Interferon gamma, human recombinant (rHuIFN-gamma)

**Catalog No:** 51564  
**Lot No:** XXXXX  
**Source:** *E. coli*  
**Synonyms:** Immune Interferon, type II interferon, T cell interferon, MAF, IFNG, IFG, IFI, IFN-gamma

### Background

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 human recombinant produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 144 amino acids and having a molecular mass of 17 kDa.

### Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

### Formulation

The protein was lyophilized from a 0.2 µm filtered, concentrated solution in PBS pH 4.6.

### Solubility

It is recommended to reconstitute the lyophilized IFN-g in sterile distilled H<sub>2</sub>O or 20 mM AcOH not less than 100 µg/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.

### Purity

Greater than 98.0% as determined by (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE.

### Amino Acid Sequence

MQDPYVKEAE NLKKYFNAGH SDVADNGTLF LGILKNWKEE SDRKIMQSQI VSFYFKLFKN FKDDQSIQKS VETIKEDMNV  
KFFNSNKKKR DDFEKLTNYS VTDLNVQRKA IHELIQVMAE LSPAAGTKGR KRSQMLFQGR RASQ

### Activity

The specific activity as determined in a viral resistance assay is <0.05 ng/ml, corresponding to a specific activity of 2.0 x 10<sup>7</sup> IU/mg.

### Usage

**This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.**

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