

# Recombinant Human Interferon Gamma (rh IFN-gamma)

**Synonyms:** Immune Interferon, Type II Interferon, T cell Interferon, MAF, IFG, IFI

**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 of the type I interferons.

**Description:** Recombinant human IFN-gamma produced in *E.Coli* is a single, non-glycosylated, polypeptide chain containing 144 amino acids and having a molecular mass of 16.9 kDa. The rh IFN-gamma is purified by proprietary chromatographic techniques.

**Source:** *Escherichia Coli*.

**Physical Appearance:** Sterile filtered white lyophilized (freeze-dried) powder.

**Formulation:** Lyophilized from a 0.22 µm filtered solution in 25mM sodium phosphate, 200 mM NaCl, pH 7.5: The aliquots of 1µg contain Trehalose 5% (w/vol) for better recovery

**Solubility:** It is recommended to reconstitute the lyophilized rh IFN-gamma in sterile H<sub>2</sub>O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

**Stability:** Lyophilized rh IFN-gamma although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution rh 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 95.0% as determined by SDS-PAGE.

**Amino Acid Sequence:** MQDPYVKEAENLKKYFNAGH SDVADNGTLFLGILKNWKEE  
SDRKIMQSQIVSFYFKLFKN FKDDQSIQKSVETIKEDMNV KFFNSNKKKRDDFEKLTNYS  
VTDLNVQRKAIHELIQVMAE LSPAAKTGKRKRSQMLFRGR RASQ

**Endotoxicity:** The endotoxin level is less than 1 EU / µg determined by LAL method

**Biological 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.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	20 µg	Cat.N°	11343534
<i>medium</i>	100 µg	Cat.N°	11343536
<i>large</i>	500 µg	Cat.N°	11343537

**ImmunoTools** Excellent Quality - Advantageously priced

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