

Recombinant Murine Interferon Gamma (rm IFN-gamma)

Synonyms: Immune Interferon, Type II Interferon, T cell Interferon, MAF, IFNG, 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 effects of the type I interferons.

Description: Recombinant murine IFN-gamma produced in *E.Coli* is a single, non-glycosylated, polypeptide chain containing 134 amino acids and having a molecular mass of 15.6 kDa. The rm 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, pH 6.5
The sample size of 1µg contains Trehalose 5% (w/vol) for better recovery

Solubility: It is recommended to reconstitute the lyophilized rm IFN-gamma in sterile H₂O not less than 100 µg/ml which can then be further diluted to other aqueous solutions.

Stability: Lyophilized rm IFN-gamma although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution rm 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: MHGTVIESLES LN NYFNSSG IDVEEKSLFLDIWRNWQKDG
DMKILQSQIISFYLR LFEVL KDNQAISNNISVIESHLITT FFSNSKAKKDAFMSIAKFEV
NNPQVQRQAFNELIRVVHQL LPESLRKRKRSRC

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

Biological Activity: The specific activity as determined by the cytopathic affect inhibition assay with murine NIH 3T3 cells challenged with EMC virus was < 0.1 ng/ml, corresponding to a specific activity of 1.0 x 10⁷ IU/mg.

This material is offered for **research 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°	12343534
<i>medium</i>	100 µg	Cat.N°	12343536
<i>large</i>	500 µg	Cat.N°	12343537
<i>x-large</i>	1000 µg	Cat.N°	12343538

ImmunoTools Excellent Quality - Advantageously priced

Gladiolenweg 2; 26169 Friesoythe; Germany
phone:+49-(0)4491-400997, fax:+49-(0)4491-400998, info@immunotools.com
www.immunotools.com