

Recombinant Rat Interferon Gamma (rr 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 have 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 rat IFN-gamma produced in *E. Coli* is a single, non-glycosylated, polypeptide chain containing 135 amino acids and having a molecular mass of 15.6 kDa. The rr 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 7.0. The aliquotes of 1µg contain Trehalose 5% (w/vol) for better recovery

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

Stability: Lyophilized rr IFN-gamma although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution rr 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: MQGTLIESLESKKNYFNSSS MDAMEGKSLLLDIWRNWQKD
GNTKILESQIISFYLRLEFV LKDNQAISNNISVIESHLIT NFFSNSKAKKDAFMSIAKFE
VNNPQIQHKAVNELIRVIHQ LSPESLRKRKR SRC.

Biological Activity: The specific activity as determined by the cytopathic affect inhibition assay with murine L929 cells challenged with EMC virus was < 0.1 ng/ml, corresponding to a specific activity of 1 x 10⁷ IU/mg.

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

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°	13343534
<i>medium</i>	100 µg	Cat.N°	13343536
<i>large</i>	500 µg	Cat.N°	13343537

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