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 H₂O 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:** MQDPYVEAENLKKYFNAGH SDVADNTLGLKLKNWKEE SDRKIMQSQIVSFYKLFKKN FKDDQSIQKSVETIKEDMNV KFFNSNKKRDDFEKLTNYSVTDLNVRQRKAIHELIQVMAELSPAAKTGKRKRSQMLFRGR 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 10⁷ IU/mg.

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