Recombinant Mouse 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: MHGTVIESLSLNNYFNSSG IDVEEKSLFLDWRNQKDG DMKILQSIISFYLRLFEVL KDNQAMISNISVIESHLITT FFSNSKAKKAFMSIAYFEV NNPQVRQAFNELIRVHQL LPESSLRKRKRRC

Endotoxinity: 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.

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