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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Interferon gamma, mouse recombinant (rmIFN-gamma)

Catalog No: 87389
Lot No: XXXXX
Source: *E. coli*
Synonyms: Immune Interferon, type II interferon, T cell interferon, MAF, IFNG, IFG, IFI, IFN-gamma

Background

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

Interferon gamma mouse recombinant produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 134 amino acids and having a molecular mass of 15.6 kDa. IFN-gamma is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

Lyophilized from a 0.2 µm filtered concentrated (1 mg/ml) solution in PBS, pH 7.4 and 5% trehalose.

Solubility

It is recommended to reconstitute the lyophilized IFN-g in sterile distilled H₂O or 20 mM AcOH at concentrations ranging between 0.1 mg to 0.5 mg/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized Interferon-gamma, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution 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 (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE.

Amino Acid Sequence

MHGTVIESLE SLNNYFNSSG IDVEEKSLFL DIWRNQKDG DMKILQSQII SFYLRLEFVL KDNQAISNNI SVIESHLITT
FFSNSKAKKD AFMSIAKFEV NNPQVQRQAF NELIRVVHQL LPESSLRKRK RSRC

Activity

The specific activity as determined in a viral resistance assay is <0.1 ng/ml, corresponding to a specific activity of 1 x 10⁷ units/mg.

Usage

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