



Interferon gamma, mouse recombinant (rmlFN-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 IDVEEKSFL DIWRNWQKDG DMKILQSQII SFYLRLEVL KDNQAISNNI SVIESHLITT
FFSNSKAKKD AFMSIAKFEV NNPQVQRQAF NELIRVVHQL LPESLRKRK 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

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.

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