



Product Datasheet

Product Name	Recombinant Human Interferon-Gamma
Cata No	CB500108
Source	Escherichia Coli
Synonyms	Immune Interferon, type II interferon, T cell interferon, MAF, IFNG, IFG, IFI, IFN-gamma.

Description

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.

Interferon-gamma Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 144 amino acids and having a molecular mass of 16879 Dalton. The IFN-gamma is purified by proprietary chromatographic techniques

Purity

Greater than 98.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

Reconstitution

It is recommended to reconstitute the lyophilized Interferon-gamma in sterile 18M Ω -cm H₂O not less than 100 μ g/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 $^{\circ}$ C. Upon reconstitution IFN-gamma should be stored at 4 $^{\circ}$ C between 2-7 days and for future use below -18 $^{\circ}$ C.

For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Formulation

The protein was lyophilized after extensive dialysis from a concentrated (1mg/ml) solution in 10mM sodium Phosphate buffer pH=7.4 \pm 0.1.

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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