

rec. human Interferon gamma

rHu IFN- γ

Product	Cat#	Package size
rec. human Interferon gamma (rHu IFN- γ)	C6018.0020	20 μ g
rec. human Interferon gamma (rHu IFN- γ)	C6018.0100	100 μ g
rec. human Interferon gamma (rHu IFN- γ)	C6018.1000	1mg

Product 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.

Rec. human Interferon-gamma from *E.Coli* is a single, non-glycosylated, polypeptide of 144 amino acids and a molecular mass of appr. 17 kDa.

Synonyms: Immune Interferon, type II interferon, T cell interferon, MAF, IFNG, IFG, IFI, IFN-gamma

Source: *E.coli*

Purity: >98.0%, determined by HPLC and reducing SDS-PAGE

Physical Appearance: Sterile filtered lyophilised powder.

Formulation: The protein was lyophilized from a concentrated (1mg/mL) PBS solution of pH4.6 \pm 0.1.

Solubility

It is recommended to reconstitute the lyophilised rHuIFN- γ in sterile 20 mM AcOH not less than 100 μ g/mL, which can then be further diluted to other aqueous solutions.

Stability

Lyophilised rHuIFN- γ although stable at room temperature for at least 3 weeks, should be stored at -20°C. Reconstituted rHuIFN- γ should be stored at +2°C to +8°C short term (2-7 days) and at -20°C for long term storage. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Please prevent from repeated freeze-thaw cycles.

Biological Activity

The specific activity as determined in a viral resistance assay is <0.05ng/mL, corresponding to a specific activity of 2.0 x 10E7 IU/mg.

Amino acid composition

MQDPYVKEAE NLKKYFNAGH SDVADNGTLF LGILKNWKEE SDRKIMQSQI VSFYFKLFKN FKDDQSIQKS
VETIKEDMNV KFFNSNKKKR DDFEKLTNYS VTDLNVQRKA IHELIQVMAE LSPAAGTKGR KRSQMLFQGR RASQ.

Protein Content:

Protein quantitation was carried out by two independent methods

1. UV spectroscopy at 280 nm using the absorbency value of 0.640 as the extinction coefficient for a 0.1% (1mg/mL) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics).

2. Analysis by RP-HPLC, using a calibrated solution of IFN-g as a Reference Standard.

Usage

This product is for research/laboratory usage only. It may not be used as drug, agricultural or pesticidal product, food additive or household chemical.

Reference:

Title: *Candida albicans* abrogates the expression of interferon- γ -inducible protein-10 in human keratinocytes.

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