

Recombinant Porcine Interferon-gamma

Cat. No. IFNG-21P Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Porcine Interferon-gamma produced in <i>E. Coli</i> is a single, non-glycosylated, polypeptide chain containing 146 amino acids and having a molecular mass of 17140 Dalton. The IFN-gamma is purified by proprietary chromatographic techniques.
Species	Pig
Source	E.coli
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.
Amino Acid Sequence	The sequence of the first five N-terminal amino acids was determined and was found to be Ser-Tyr-Cys-Gln-Ala.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Formulation	The protein was lyophilized with no additives.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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Solubility	It is recommended to reconstitute the lyophilized Interferon-gamma in sterile 18MΩ-cm H ₂ O not less than 100g/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The ED ₅₀ as determined by the amount of interferon that inhibited 50% of the cytopathic effect of vesicular stomatitis virus in MDBK cells was < 0.3 ng/ml.
Protein Content	Protein quantitation was carried out by two independent methods: 1. UV spectroscopy at 280 nm using the absorbency value of 0.556 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 as a Reference Standard.
Storage	Lyophilized Interferon-g 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.

GENE INFORMATION

Gene Name	IFNG interferon-gamma [<i>Sus scrofa</i>]
Synonyms	IFNG; Interferon-gamma; IFN-gamma Interferon gamma; Interferon, gamma; IFG; IFI; IFN-gamma; Immune interferon; Type II interferon; T cell interferon; MAF
Gene ID	396991
mRNA Refseq	NM_213948

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Protein Refseq	NP_999113
UniProt ID	P17803
Chromosome Location	5p1.2-q1.1
Pathway	Allograft rejection; Cytokine-cytokine receptor interaction; Graft-versus-host disease; Jak-STAT signaling pathway; Natural killer cell mediated cytotoxicity; Proteasome; Regulation of autophagy; Systemic lupus erythematosus; T cell receptor signaling pathway; TGF-beta signaling pathway; Type I diabetes mellitus

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