



*Recombinant Human IFN $\gamma$*   
*(Interferon-gamma)*

*Catalog Number: 100-77*  
*Accession Number: P01579*

*Specifications and Uses:*

**Alternate Names:** Type II interferon, T cell interferon, Immune Interferon, MAF

**Description:**

Interferon gamma, IFN $\gamma$ , is a major immune-modulating molecule produced mainly by T cells and natural killer cells activated by antigens, mitogens or alloantigens. Most immune cells express IFN- $\gamma$  receptors and respond to IFN $\gamma$ -induced signaling by up-regulating MHC class I expression. Human IFN $\gamma$  does not show cross-reactivity with mouse. Recombinant human IFN $\gamma$  is a non-glycosylated protein, containing 144 amino acids, with a molecular weight of 16.88 kDa.

**Source:** *E.coli*

**Physical Appearance:** Sterile filtered white lyophilized (freeze-dried) powder.

**Formulation and Stability:**

Recombinant human IFN $\gamma$  is lyophilized from 5 mM Na<sub>2</sub>PO<sub>4</sub>, pH 7.2 and 50 mM NaCl.

Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

**Reconstitution:**

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.

**Protein Content and Purity (typically  $\geq$  95%) determined by:**

HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm

**Endotoxin Level:**

Measured by kinetic LAL analysis and is typically  $\leq$  1 EU/ $\mu$ g protein.

**Biological Activity:**

The activity is measured in antiviral assays using virally infected L929 cells and is typically less than 0.1 ng/mL.

**AA Sequence:**

MQDPYVKEAE NLKKYFNAGH SDVADNGTLF LGILKNWKEE SDRKIMQSQI VSFYFKLFKN FKDDQSIQKS  
VETIKEDMNV KFFNSNKKKR DDFEKL TNYS VTDLNVQRKA IHELIQVMAE LSPA AKTGKR KRSQMLFQGR  
RASQ

**THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!**

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