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## Product Data Sheet

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Product Name: IFNG Human, His Active

Cat. No.: GP20397

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Immune Interferon; type II interferon; T cell interferon; MAF; IFNG; IFG; IFI; IFN-gamma.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MQDPYVKEAE NLKKYFNAGH SDVADNGTLF LGILKNWKEE SDRKIMQSQI VSFYFKLFKN FKDDQSIQKS VETIKEDMNV KFFNSNKKKR DDFEKLTNYS VTDLNVQRKA IHELIQVMAE LSPA AKTGKR KRSQMLFRG.		
Formulation	IFNG protein solution (1mg/ml) containing Phosphate buffered saline (pH 7.4) and 20% glycerol.		

**Introduction**

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.

**Biological Activity**

Measured in a cytotoxicity assay using WiDr cells. The ED50 for this effect is  $\leq 5$  ng/ml.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Background**

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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IFNG Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 159 amino acids (24-161 a.a) and having a molecular mass of 18.4kDa. IFNG is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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