

## IFN- $\gamma$ , Human(CHO-expressed)

**Cat. No.:** Z02986-50

**Size:** 50.0 ug

**Synonyms:** Immune Interferon, type II interferon, T cell interferon, MAF

### Description:

Human Interferon gamma (hIFN- $\gamma$ ) is a macrophage-activating factor and the lone member of Interferon type II. The active form of IFN- $\gamma$  is an antiparallel dimer that interacts with the receptor IFN- $\gamma$ R1 and sets off IFN- $\gamma$ /JAK/STAT pathway. IFN- $\gamma$  signaling does diverse biological functions primarily related to host defense and immune regulation, including antiviral and antibacterial defense, apoptosis, inflammation, and innate and acquired immunity. While IFN- $\gamma$ -induced inflammatory cascade summons a variety of immune-related cell types, such as macrophages, natural killer (NK) cells and cytotoxic T lymphocytes (CTLs), IFN- $\gamma$  is also implicated in resistance to NK cell and CTL responses and in immune escape in a variety of cancers.

### Amino Acid Sequence:

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00001 QDPYVKEAEN LKKYFNAGHS DVADNGTLFL GILKNWKEES
00041 DRKIMQSQIV SFYFKLFKNF KDDQSIQKSV ETIKEDMNVK
00081 PFNSNKKKRD DFEKLTNYSV TDLNVQRKAI HELIQVMAEL
00121 SPAAKTGKRK RSQMLFRGRR ASQ
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**Source:** CHO

**Species:** Human

**Biological Activity:** ED<sub>50</sub> < 2 ng/ml, measured in a cytotoxicity assay using HT-29 cells, corresponding to a specific activity of > 5×10<sup>5</sup> units/mg.

**Molecular Weight:** 15-25 kDa, observed by non-reducing SDS-PAGE.

**Formulation:** Lyophilized after extensive dialysis against PBS.

**Reconstitution:** Reconstituted in ddH<sub>2</sub>O or PBS at 100  $\mu$ g/ml.

**Purity:** > 95% as analyzed by SDS-PAGE and HPLC.

**Endotoxin Level:** < 0.2 EU/ $\mu$ g, determined by LAL method.

**Storage:** Lyophilized recombinant Human Interferon gamma (IFN- $\gamma$ ) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rh IFN- $\gamma$  should be stable up to 1 week at 4°C or up to 2 months at -20°C.