

## 32-20175: Animal-Free Recombinant Human IFN-Gamma(Discontinued)

**Reactivity :** Human, Monkey

**Alternative Name :** Immune Interferon, type II interferon, T cell interferon, MAF

### Description

**Source:** *E. coli* IFN-Gamma is an acid-labile interferon produced by CD4 and CD8 T lymphocytes as well as activated NK cells. IFN-Gamma receptors are present in most immune cells, which respond to IFN-Gamma signaling by increasing the surface expression of class I MHC proteins. This promotes the presentation of antigen to T-helper (CD4+) cells. IFN-Gamma signaling in antigen-presenting cells, and antigen-recognizing B and T lymphocytes, regulates the antigen-specific phases of the immune response. Additionally, IFN-Gamma stimulates a number of lymphoid cell functions, including the anti-microbial and anti-tumor responses of macrophages, NK cells, and neutrophils. Human IFN-Gamma is species-specific and is biologically active only in human and primate cells. Recombinant Human IFN-Gamma is a 16.8 kDa protein containing 144 amino acid residues.

### Product Info

**Amount :** 20 µg / 100 µg

**Purification :** Purity:  $\geq 98\%$  by SDS-PAGE gel and HPLC analyses.

**Content :** This recombinant protein is supplied in lyophilized form.

**Amino Acid :** MQDPYVKEAE NLKKYFNAGH SDVADNGTLF LGILKNWKEE SDRKIMQSQI VSFYFKLFKN FKDDQSIQKS  
VETIKEDMNV KFFNSNKKKR DDFEKLTNYS VTDLNVQRKA IHELIQVMAE LSPA AKTGKR KRSQMLFQGR  
RASQ

### Application Note

The  $ED_{50}$  determined by a cytotoxicity assay using HT-29 cells is  $\leq 0.05$  ng/ml, corresponding to a specific activity of  $\geq 2 \times 10^7$  units/mg.