Interferon-γ from rat recombinant, expressed in *Escherichia coli* cell culture tested

Catalog Number I3275
Storage Temperature –20 °C

Synonym: IFN-γ

**Product Description**
Interferon-γ is produced by activated T cells, and natural killer cells stimulated by alloantigens, tumors, and mitogens.1 IFN-γ exerts a variety of biological effects including antiviral activity,2 inhibition of cell or tumor growth,3,4 and promotion of terminal differentiation of B cells into immunoglobulin-producing cells.5,6 In addition, IFN-γ activates macrophages, boosts the cytotoxicity of natural killer cells, and stimulates T cell cytotoxicity.7,8 IFN-γ is synergistic with TNF in its cytotoxicity.9 IFN-γ acts on cells via specific cell surface receptors.10

Molecular mass: 15.5 kDa

This product is lyophilized from a 0.2 µm filtered solution of phosphate buffered saline containing 50 µg of bovine serum albumin per 1 µg of cytokine.

Purity: ≥97% (SDS-PAGE)

Endotoxin: <1.0 Endotoxin Unit/µg of IFN-γ

The biological activity of recombinant rat IFN-γ is measured in an antiviral assay using L-929 cells infected with EMC virus.11

**Precautions and Disclaimer**
This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

**Preparation Instructions**
Reconstitute the contents of the vial using 0.2 µm filtered PBS and 1 mM DTT containing at least 0.1% BSA or HSA to prepare a working stock solution of ≥0.1 mg/ml.

**Storage/Stability**
Product can be stored at –20 °C for greater than 6 months. After reconstitution, store at 2–8 °C for a maximum of three months. For extended storage, freeze in working aliquots at –70 °C or –20 °C. Repeated freezing and thawing is not recommended.

**References**

TD,KAA,PHC,MAM 02/10-1