#### PRODUCT DATA SHEET



# Bioworld Technology, Inc.

# Recombinant Human Interferon-γ (rHuIFN-γ)

Catalog Number: PR1049 Source: Escherichia coli Quantity: 20µg/100µg/1.0mg

## **Description**

Interferon-gamma (IFN- $\gamma$ , also known as Type II interferon or immune interferon) is a cytokine produced primarily by T-lymphocytes and natural killer cells. The protein shares no significant homology with IFN- $\beta$  or the various IFN- $\alpha$  family proteins. Mature IFN- $\gamma$  exists as noncovalently-linked homodimers. Human IFN- $\gamma$  is highly species specific and is biologically active only in human and primate cells.

IFN- $\gamma$  was originally characterized based on its antiviral activities. The protein also exerts antiproliferative, immunoregulatory and proinflammatory activities and is thus important in host defense mechanisms. IFN- $\gamma$  induces the production of cytokines, upregulates the expression of class I and II MHC antigens, Fc receptor and leukocyte adhesion molecules. It modulates macrophage effector functions, influences isotype switching and potentiates the secretion of immunoglobulins by B cells. IFN- $\gamma$  also augments TH1 cell expansion and may be required for TH1 cell differentiation.

#### **Molecular Weight:**

Approximately 17 kDa, a single non-glycosylated polypeptide chain containing 144 amino acids.

# **Purity:**

>98% by SDS-PAGE and HPLC analyses.

### **Biological Activity:**

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Fully biologically active when compared to standard. The specific activity as determined in a viral resistance assay is less then 0.05 ng/ml, corresponding to a specific activity of  $2.0 \times 107 \text{ IU/mg}$ .

## **Physical Appearance:**

Sterile Filtered White lyophilized (freeze-dried) powder.

#### **Formulation:**

Lyophilized from a 0.2 □m filtered concentrated solution in PBS, pH 7.4.

#### **AA Sequence:**

MQDPYVKEAENLKKYFNAGHSDVADN GTLFLGILKNWKEESDRKIMQSQIVSFY FKLFKNFKDDQSIQKSVETIKEDMNVK FFNSNKKKRDDFEKLTNYSVTDLNVQR KAIHELIQVMAELSPAAKTGKRKRSQM LFOGRRASO

## **Endotoxin:**

Less than  $1EU/\Box g$  of rHuIFN- $\gamma$  as determined by LAL method.

#### **Reconstitution:**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at <-20  $\square$ C. Further dilutions should be made in appropriate buffered solutions.

## **Storage:**

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This lyophilized preparation is stable at  $2-8\Box C$ , but should be kept at  $-20\Box C$  for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at  $2-8\Box C$ . For maximal stability, apportion the reconstituted preparation into working aliquots and store at  $-20\Box C$  to  $-70\Box C$ . Avoid repeated freeze/thaw cycles.

**MADE IN CHINA** 

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Usage:

HUMAN USE. Made in China

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. NOT FOR

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