

**Recombinant Human Interferon-gamma  
(rhIFN- $\gamma$ )  
Catalog Number: 106-06**

<b>Description</b>	Interferon-gamma (IFN- $\gamma$ ) is a multifunctional cytokine which is secreted primarily by activated NK cells and T cells. IFN- $\gamma$ exerts a wide range of immunoregulatory activities and is considered to be the prototype proinflammatory cytokine. Originally characterized based on anti-viral activities, IFN- $\gamma$ also exerts anti-proliferative, immunoregulatory, and proinflammatory activities. IFN- $\gamma$ can upregulate MHC class I and II antigen expression by antigen-presenting cells.
<b>Synonyms</b>	Interferon- $\gamma$ , Immune interferon, Type II interferon, T cell interferon, Macrophage-activating factor (MAF),
<b>AA Sequence</b>	MQDPYVKEAE NLKKYFNAGH SDVADNGTLF LGILKNWKEE SDRKIMQSQI VSFYFKLFKN FKDDQSIQKS VETIKEDMNV KFFNSNKKKR DDFEKLTNYS VTDLNVQRKA IHELIQVMAE LSPAAGTGKR KRSQMLFRGR RASQ
<b>Source</b>	<i>Escherichia coli</i> .
<b>Molecular Weight</b>	Approximately 16.9 kDa, a single non-glycosylated polypeptide chain containing 144 amino acids.
<b>Purity</b>	>98% by SDS-PAGE and HPLC analyses.
<b>Biological Activity</b>	Fully biologically active. The specific activity determined by an anti-viral assay is no less than $2.0 \times 10^7$ IU/mg.
<b>Physical Appearance</b>	White lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m filtered concentrated (1mg/ml) solution in PBS, pH 7.4.
<b>Endotoxin</b>	< 1EU/ $\mu$ g of rhIFN- $\gamma$ as determined by LAL method.
<b>Reconstitution</b>	Reconstitute in sterile distilled water containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL.
<b>Storage</b>	Store at -20°C after receiving. Upon reconstitution, store at 2-8°C for up to one week. For maximal stability, aliquot and store at -20°C. Avoid repeated freeze/ thaw cycles.
<b>Usage</b>	This product is for research use only. It is not approved for use in humans, animals, or <i>in vitro</i> diagnostic procedures.