

Ifng

## Recombinant Rat Interferon gamma

<b>Catalog No.</b>	CRR202A CRR202B CRR202C	<b>Quantity:</b>	20 µg 100 µg 1.0 mg
<b>Alternate Names:</b>	IFN-gamma, Type II interferon, T cell interferon, MAF		
<b>Description:</b>	Interferon-gamma (IFN-gamma), also known as Type II interferon or immune interferon, is a cytokine produced primarily by 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. 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. IFN-gamma has been shown to be a crucial player in the immune response against some intracellular pathogens, including that of Chagas disease. It has also been identified as having a role in seborrheic dermatitis.		
<b>Gene ID:</b>	25712		
<b>UniProt ID:</b>	P01581		
<b>Source:</b>	<i>E. coli</i>		
<b>Molecular Weight:</b>	15.6/31.2 kDa, 135/270 aa, noncovalently-linked homodimer		
<b>Formulation:</b>	Lyophilized from a sterile filtered (0.2 micron) solution containing 10 mM sodium phosphate, 100 mM NaCl, pH 7.5		
<b>Purity:</b>	≥ 95.0% by reducing and non-reducing SDS-PAGE		
<b>Endotoxin Level:</b>	≤ 1 EU/µg, determined by kinetic LAL analysis.		
<b>Biological Activity:</b>	This product demonstrates biological activity in a viral CPE assay using EMC virus on L929 cells, starting at $9 \times 10^6$ units/mg.		
<b>Amino Acid Sequence:</b>	MQGTLIESLE SLKNYFNSSS MDAMEGKSLL LDIWRNWQKD GNTKILESQI ISFYLRLEFEV LKDNQAISNN ISVIESHLIT NFFSNSKAKK DAFMSIAKFE VNNPQIQHKA VNELIRVIHQ LSPESLRKR KRSRC		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> Add sterile distilled water or aqueous buffer to a concentration of 0.1-1.0 mg/ml. Further dilution should be made in appropriate buffered solutions.		



**Storage & Stability:**

Store as supplied at -20°C to -80°C for up to 1 year. Upon reconstitution, prepare working aliquots and store at -20°C to -80°C. It is recommended that a carrier protein such as 0.1% HSA or BSA is added for long term storage.

**Avoid repeated freeze-thaw cycles.**

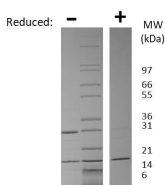
**Rat IFN-gamma Gel**

Figure: 1 ug run under (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Rat IFN-gamma is predicted to be a noncovalently-linked homodimer with a MW of 31.2 kDa (each monomer is 15.6 kDa).

**NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.**



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