

## Recombinant Rat Interferon-gamma (rr IFN $\gamma$ )

**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 regulate 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 rat IFN-gamma is a 15.6 kDa protein containing 135 amino acid residues.

**Synonyms :** Immune Interferon, type II interferon, T cell interferon, MAF

**Source:** *Escherichia coli*

**AA Sequence:** MQGTLIESLE SLKNYFNSSS MDAMEGKSL LDIWRNWQKD GNTKILESQI  
ISFYLRLEFV LKDNQAISNN ISVIESHLIT NFFSNSKAKK DAFMSIAKFE  
VNNPQIQHKA VNELIRVIHQ LSPESLRLKR KRSRC

**Formulation:** Lyophilisate from a 0.22  $\mu$ m filtered solution in 25 mM sodium phosphate pH 7.0 + 200 mM NaCl.

**Reconstitution:** Reconstitute in sterile endotoxin free water not less than 100  $\mu$ g/ml

**Stability:** The lyophilized protein is stable for at least 2 years at  $-20^{\circ}$ C. Reconstituted rr IFN- $\gamma$  is stable for at least 3 months when stored in concentrated working aliquots (100 ng/ $\mu$ l or higher) at  $-20^{\circ}$ C. Avoid repeated freeze/thaw cycles.

**Biological Activity:** The specific activity as determined by the cytopathic affect inhibition assay with murine L929 cells challenged with EMC virus was < 0.1 ng/ml, corresponding to a specific activity of  $1 \times 10^7$  IU/mg.

**Purity:** 95% (verified by SDS-PAGE / silver stain)

**Endotoxicity:** The endotoxin level is less than 0.1 ng per  $\mu$ g (1EU/ $\mu$ g) determined by LAL method

**Order N $^{\circ}$ :** rr IFN $\gamma$ +Size  
available sizes: 20  $\mu$ g, 100  $\mu$ g

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