# Active Recombinant Bovine Interferon, Gamma

**Cat. No.** IFNG-61B **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Bovine IFN-γ was expressed in *Yeast*. MW= 16.9 kDa(143 aa). |
| **Species** | Bovine |
| **Source** | Yeast |
| **Description** | Interferon-gamma (IFN-γ, 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-β or the various IFN-α family proteins. Mature IFN-γ exists as noncovalently-linked homodimers. Human IFN-γ is highly species specific and is biologically active only in human and primate cells. IFN-γ was originally characterized based on its antiviral activities. |
| **Formulation/ Reconstitution** | Lyophilized. Reconstitute with sterile phosphate-buffered saline containing at least 0.1% carrier protein. |
| **Purification** | Ion-exchange chromatography. |
| **Purity** | >95% as visualized by SDS-PAGE analysis. |
| **Amino Acid Sequence** | QGQFFREIEN LKEYFNASSP DVAKGGPLFS EILKNWKDES DKKIIQSQIV SFYFKLFENL KDNQVIQRSM DIIKQDMFQK FLNGSSEKLE DFKKLIQIPV DDLQIQRKAI NELIKVMNDL SPKSNLRKRK RSQNLFRGRR AST. |
| **Bioactivity** | The biological activity was measured in a cell activation assay using the Griess |

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| | reaction as an indicator of nitric oxide production by bovine PBMC. The ED50 for this effect is typically 50 - 60 ug/ml. |
| **Stability And Storage** | Stable for up to twelve months from date of receipt at -20°C. Stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. Avoid repeated freeze/thaw cycles. |

## GENE INFORMATION

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| **Gene Name** | IFNG interferon, gamma [ Bos taurus ] |
| **Synonyms** | interferon, gamma; IFNG; boIFNG; IFN-gamma; interferon-gamma; interferon gamma type 2 |
| **Gene ID** | 281237 |
| **mRNA Refseq** | NM_174086.1 |
| **Protein Refseq** | NP_776511.1 |
| **UniProt ID** | P07353 |
| **Chromosome Location** | 5q22-q24 |
| **Pathway** | Allograft rejection; Cytokine-cytokine receptor interaction; Graft-versus-host disease; Jak-STAT signaling pathway; Natural killer cell mediated cytotoxicity; Proteasome; Regulation of autophagy; Systemic lupus erythematosus; T cell receptor signaling pathway; TGF-beta signaling pathway; Type I diabetes mellitus |
| **Function** | cytokine activity; interferon-gamma receptor binding |

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**Line representation of the crystallographic structure of interferon gamma.**



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