

Active Recombinant Bovine Interferon, Gamma

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

SPECIFICATION

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	QQQFFREIEN 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

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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