

# Recombinant Mouse IFN $\gamma$ Recombinant Proteinb

## Product Information

**Product No.:** I-217

**Storage:** -20°C to -70°C

## Product Description

### Background:

Interferon-gamma (IFN- $\gamma$ ) or type II interferon is a dimerized soluble cytokine that is the only member of the type II class of interferons.<sup>1</sup> It is a cytokine critical for innate and adaptive immunity against viral and intracellular bacterial infections and for tumor control. IFNG is produced predominantly by natural killer (NK) and natural killer T (NKT) cells as part of the innate immune response, and by CD4 and CD8 cytotoxic T lymphocyte (CTL) effector T cells once antigen-specific immunity develops.<sup>2</sup> IFN- $\gamma$  has antiviral, immunoregulatory, and anti-tumour properties.<sup>3</sup>

### Known Reactivity Species:

Mouse

### Expression Host:

E. coli Cells

### Formulation

This recombinant protein was 0.2  $\mu$ m filtered and lyophilized from modified Dulbecco's phosphate buffered saline (1X PBS) with trehalose pH 7.2 – 7.4 with no calcium, magnesium, or preservatives.

### Purity

>97% by SDS-PAGE and analyzed by silver stain.

### Endotoxin

<0.1 EU/ $\mu$ g as determined by the LAL method

### Storage and Stability

This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -80°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -80°C in a manual defrost freezer.

**Avoid Repeated Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions.**

### Country of Origin

USA

### References

1. Soong, L. *et al.* (2004) *Infect Immun.* **72**(2):988-95. [PubMed](#)
2. Goeddel, DV. *et al.* (1982) *Nature* **298**: 859
3. Wilson, CB. *et al.* (2007) *Adv. Immunol.* **96**: 41
4. Hume, DA. *et al.* (2004) *J Leukoc Biol.* **75**: 163