

**Animal-Free Recombinant Murine IFN- $\gamma$**   
**Catalog # PBG10553****Specification**

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**Animal-Free Recombinant Murine IFN- $\gamma$  - Product Information****Animal-Free Recombinant Murine IFN- $\gamma$  - Additional Information****Description**

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 regulates 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- $\gamma$  species-specific and is biologically active only in human and primate cells. Recombinant murine IFN- $\gamma$  is a 15.6 kDa protein containing 134 amino acid residues.

**Biological Activity**

Determined by its ability to inhibit the proliferation of murine WEHI-279 cells. The expected  $ED_{50}$  is  $\leq 0.2$  ng/ml, corresponding to a specific activity of  $\geq 5 \times 10^6$  units/mg.

**Authenticity**

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

**Endotoxin**

Endotoxin level is  $<0.1$  ng/  $\mu$ g of protein ( $<1$ EU/  $\mu$ g).

**Protein Content**

Verified by UV Spectroscopy and/or SDS-PAGE gel.

**Storage**

-20°C

**Precautions**

Animal-Free Recombinant Murine IFN- $\gamma$  is for research use only and not for use in diagnostic or therapeutic procedures.

**Animal-Free Recombinant Murine IFN- $\gamma$  - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **Animal-Free Recombinant Murine IFN- $\gamma$ - Images**