

Last updated 10/19/15

## Certificate of Analysis

### Recombinant Human IFN-gamma (Interferon-gamma)

Catalog #	Size	Concentration	price
PT-CF-hIFG-001	100 ug	0.5 mg/mL	

**Product Description:** Interferon-gamma is the only member of the type II IFN, also called the immune interferon. Interferon-gamma is known for its primary ability to regulate overall immune system. It also has weak antiviral and anti-proliferative activity.<sup>1</sup> It is involve in the activation, growth and differentiation of macrophages, T-cells, B-cells and NK cells.<sup>2</sup> Macrophage stimulation with IFN-gamma induces direct antimicrobial and antitumor mechanisms.

**Synonyms:** IFNG, immune interferon, macrophage-activating factor

**Sequence:** QDPYVKEAENLKKYFNAGHSDVADNGTLFLGILKNWKEESDRKIM  
QSQIVSFYFKLFKNFKDDQSIQKSVETIKEDMNVKFFNSNKKKRDDFEKLTNYS  
VTDLNVQRKAIHELIVMAELSPAAGTGRKRKRSQMLFRG

**Acession #:** [P01579](#)

**Quality control:** Verified by Mass Spectrometry analyses.

**Purity:** >95% by SDS-PAGE gel

**Product Source:** IFNG was produced in E. Coli cells transformed with human IFNG gene. This product is sterile and does not contain any components of animal origin.

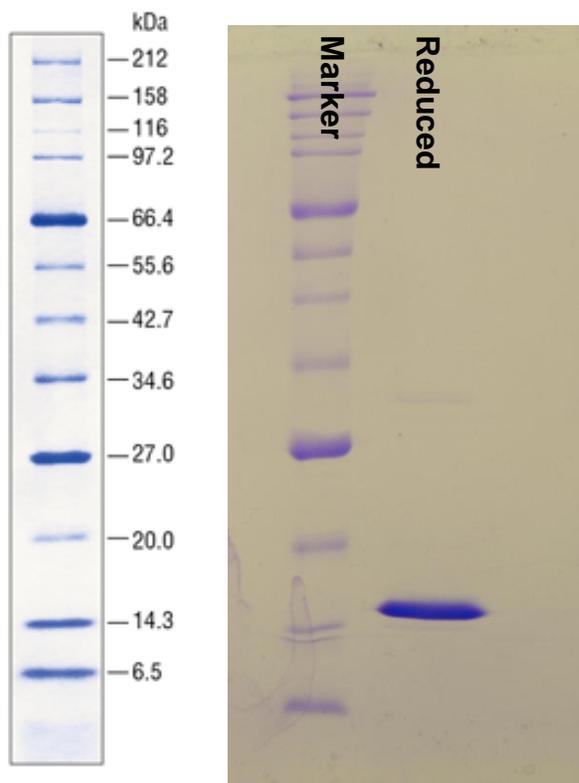
**Formulation:** Sterile filtered through a 0.2 micron filter in 50% glycerol, 10 mM Phosphate buffer at pH 7.4, 200 mM NaCl

**Usage:** FOR LABORATORY RESEARCH USE ONLY.

**Storage/Stability:** Avoid repeated freeze-thaw cycles. 12 months at -20 C to -80 C. 1 month at 2 C to 8 C.

## References:

1. Schroder, K., Hertzog, P. J., Ravasi, T., & Hume, D. A. (2004). Interferon- $\gamma$ : an overview of signals, mechanisms and functions. *Journal of leukocyte biology*, 75(2), 163-189.
2. Romagnani, S. (1997). the th1/th2 paradigm. *Immunology today*, 18(6), 263-266.



**Figure 1. Interferon-gamma SDS PAGE gel.** Lane 1, protein marker; lane 2, IFN-gamma with a mass of 16 kDa on SDS-PAGE under reducing environment;