

## **Product Data Sheet**

## **Recombinant Human IFN-**γ (carrier-free)

Catalog # / Size:	570202 / 10 µg 570204 / 25 µg 570206 / 100 µg 570208 / 500 µg
Source:	Human IFN-γ, amino acids GIn24-GIn166 (Accession # NM_000619) was expressed in E. coli.
Molecular Mass:	The 144 amino acid N-terminal methionylated recombinant protein has a predicted molecular mass of 16,907 Da. The DTT-reduced protein and the non-reduced protein migrate at approximately 17 kDa by SDS-PAGE.
Purity:	Purity is >98%, as determined by Coomassie stained SDS-PAGE.
Endotoxin Level:	Endotoxin level is <0.1 EU/µg (<0.01ng/µg) protein as determined by the LAL method.
Activity:	The ED <sub>50</sub> is 0.416 ng/ml, corresponding to a specific activity of 2.4 X10 <sup>6</sup> units/mg, as determined by a dose dependent stimulation of HT-29 cells.
Preparation:	10-100µg sizes are bottled at 100µg/ml. 500µg and larger sizes are bottled at the concentration indicated on the vial.
Formulation:	0.22 µm filtered protein solution is in 20mM NaH <sub>2</sub> PO <sub>4</sub> ,150mM NaCl, pH 7.2.
Storage:	Unopened vial can be stored at 4°C for three months or from -20°C to -70°C for six months. For maximum results, quick spin vial prior to opening. Stock solutions should be prepared at no less than 10 µg/ml in buffer containing carrier protein such as 1% BSA or HSA or 10% FBS. After dilution, the cytokine can be stored at 4°C for one month or from -20°C to -70°C for up to 3 months. <b>Avoid repeated freeze/thaw cycles.</b>

## **Applications:**

Applications:	Bioassay
Recommended Usage:	Use when high specific biological activity is required.
Application References:	1. Meissner TB, <i>et al.</i> 2012. <i>J. Immunol.</i> 188:4951. PubMed 2. Meissner TB, <i>et al.</i> 2010. <i>Proc. Natl. Acad. Sci.</i> USA 107:13794. PubMed
Description:	Interferon- $\gamma$ is a potent multifunctional cytokine which is secreted primarily by activated NK cells and T cells. Originally characterized based on anti-viral activities, IFN- $\gamma$ also exerts anti-proliferative, immunoregulatory, and proinflammatory activities. IFN- $\gamma$ can upregulate MHC class I and II antigen expression by antigen-presenting cells.
Antigen References:	<ol> <li>Fitzgerald K, et al. Eds. 2001. The Cytokine FactsBook. Academic Press San Diego.</li> <li>De Maeyer E, et al. 1992. Curr. Opin. Immunol. 4:321.</li> <li>Farrar M, et al. 1993. Annu. Rev. Immunol. 11:571.</li> <li>Gray P, et al. 1987. Lymphokines 13:151.</li> </ol>





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