

IFN-gamma Protein, Rat

Cat. No.:	HY-P7095
Synonyms:	rRtIFN- γ ; IFNG; IFN-gamma; Interferon gamma
Species:	Rat
Source:	E. coli
Accession:	P01581 (G24-C156)
Gene ID:	25712
Molecular Weight:	Approximately 15.5 kDa

PROPERTIES

AA Sequence	<p>G T L I E S L E S L K N Y F N S S S M D A M E G K S L L L D I W R N W Q K D G N</p> <p>T K I L E S Q I I S F Y L R L F E V L K D N Q A I S N N I S V I E S H L I T N F</p> <p>F S N S K A K K D A F M S I A K F E V N N P Q I Q H K A V N E L I R V I H Q L S</p> <p>P E S S L R K R K R S R C</p>
Biological Activity	The ED ₅₀ is <0.5 ng/mL as measured by WEHI-279 cells, corresponding to a specific activity of >2 × 10 ⁶ units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against PBS.
Endotoxin Level	<0.2 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O or PBS.
Storage & Stability	Stored at -20°C. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer. It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Interferon-gamma (IFN- γ) is a cytokine with potent immunomodulatory, anti-proliferative, and antiviral properties. IFN- γ activates cells via a different receptor than IFN- α and IFN- β , which accounts for the different physiological properties of the proteins. Production of IFN- γ is largely restricted to activated CD4 ⁺ TH1 T cells, CD8 ⁺ T cells, and natural killer cells. One of the most important consequences of IFN- γ secretion is the activation of macrophages. In addition, IFN- γ plays a central role in inflammatory responses by activating endothelial cells, promoting TH1 cell development and cellular immune responses, and up-regulation of major histocompatibility complex protein expression on antigen-presenting cells ^[1] .
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REFERENCES

[1]. Fam CM, et al. PEGylation improves the pharmacokinetic properties and ability of interferon gamma to inhibit growth of a human tumor xenograft in athymic mice. J Interferon Cytokine Res. 2014 Oct;34(10):759-68.

Caution: Product has not been fully validated for medical applications. For research use only.

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