



Recombinant Mouse IFN-gamma

20180503BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	M10-010
Size:	100 µg
Lot. No.:	According to product label

Scientific Background

Gene-ID (NCBI):	15978
Synonyms:	Ifng; Ifg; IFN-g;

IFN- γ is an acid-labile interferon produced by CD4 and CD8 T lymphocytes as well as activated NK cells. IFN- γ receptors are present in most immune cells, which respond to IFN- γ signaling by increasing the surface expression of class I MHC proteins. This promotes the presentation of antigen to T-helper (CD4⁺) cells. IFN- γ signaling in antigen-presenting cells and antigen-recognizing B and T lymphocytes regulates the antigen-specific phases of the immune response. Additionally, IFN- γ stimulates a number of lymphoid cell functions including the anti-microbial and anti-tumor responses of macrophages, NK cells, and neutrophils. Human IFN- γ species-specific and is biologically active only in human and primate cells. Recombinant murine IFN- γ is a 15.6 kDa protein containing 134 amino acid residues.

Sequence

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MHGTVIESLE SLNNYFNSSG IDVEEKSFLF DIWRNWQKDG
DMKILQSQII SFYLRLEFVL KDNQAISNNI SVIESHLITT
FFSNSKAKKD AFMSIAKFEV NNPQVQRQAF NELIRVVHQL
LPESLRKRK RSRC
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Database References

Protein RefSeq:	NP_032363
Uniprot ID:	P01580
mRNA RefSeq:	NM_008337

Product Specifications

Expressed in	E. coli
Purity	> 98% by SDS-PAGE & HPLC analyses
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	134
MW:	15.6 kDa

Stability: The lyophilized protein is stable at room temperature for 1 month and at 4°C for 6 months. Reconstituted working aliquots are stable for 1 week at 2°C to 8°C and for 12 months at -20°C to -80°C.

Reconstitution: Centrifuge vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. *Do not vortex.* This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.



AVOID REPEATED FREEZE AND THAW CYCLES!

Biological Activity: Determined by its ability to inhibit the proliferation of murine WEHI-279 cells. The expected ED₅₀ is ≤ 0.2 ng/ml, corresponding to a specific activity of ≥ 5 x 10⁶ units/mg.