



RECOMBINANT MOUSE INTERFERON- γ

CATALOG NUMBER:	IF005	QUANTITY:	100 μ g
LOT NUMBER:			
ALTERNATE NAMES:	Immune Interferon, type II interferon, T cell interferon, MAF		
SOURCE:	<i>E. coli</i>		
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.		
ACTIVITY:	The ED ₅₀ as determined by its ability to inhibit the proliferation of murine WEHI-279 cells is $\leq$ 0.2 ng/ml, corresponding to a specific activity of $\geq 5 \times 10^6$ units/mg.		
SEQUENCE:	MHGTVIESLE SLNNYFNSSG IDVEEKSLFL DIWRNWQKDG DMKILQSQII SFYLRLFEVL KDNQAISNNI SVIESHLITT FFSNSKAKKD AFMSIAKFEV NNPQVQRQAF NELIRVVHQL LPESLRKRK RSRC		
PURITY:	Greater than 98% by SDS-PAGE gel and HPLC analyses. Endotoxin level is less than 0.1 ng per μ g (1EU/ μ g).		
SPECIES REACTIVITY:	Mouse, other species not yet tested.		
PRESENTATION:	Lyophilized powder; lyophilized from a 10mM sodium phosphate pH 7.0, 25 mM NaCl solution that was filtered through a 0.2 micron filter.		
RECONSTITUTION:	Centrifuge the vial prior to opening. Reconstitute in 5-10mM sodium phosphate buffer pH 8.0 containing no NaCL. Reconstitute to a concentration of 1.0 mg/mL. DO NOT VORTEX. This solution can be stored at 2 to 8°C for up to a week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (for example highly purified, proteinase free BSA at 0.1%) and store in working aliquots at -80°C.		
STORAGE/HANDLING:	Lyophilized, dry pellet is stable at room temperature for 2 weeks, but best stored at -20°C, dessicated. See reconstitution instructions above for further handling and storage conditions. Keep aliquots tightly closed; prevent multiple freeze-thaws. Material is acid sensitive, take special care that all buffers and solutions are at least pH 7.0.		



Important Note: *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 μ L or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

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PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION

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