

Active Recombinant Mouse IFNG Protein

Cat. No. IFNG-116M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse IFNG Protein without tag was expressed in E. coli.
Species	Mouse
Source	E.coli
Description	Interferon gamma (IFN-γ) is a type II interferon that is critical during adaptive and innate immune responses to infection. IFN-γ is produced by T cells and natural killer cells following antigen-specific activation. IFN-γ binds IFN-γ receptors (IFN-γ R1 and IFN-γ R2), which are expressed on most immune cells, to activate the JAK-STAT pathway. IFN-γ-induced signaling increases the expression of class 1 major histocompatibility complex (MHC) molecules. Mouse IFN-γ is not cross-reactive with human IFN-γ.
Bio-activity	Viral CPE assay using EMC virus on L929 cells, $\geq 1.0 \times 10^7$ units/mg
Molecular Mass	Monomer, 15.7 kDa (134 aa)
AA Sequence	MHGTVIESLESNNYFNSSGIDVEEKSLFLDIWRNWQKDGMKILQSQIISFYLRRLFELVKDNQAISNNISVIESHLITTFSSNSKAKKDAFMSIAKFEVNNPQVQRQAFNELIRVVHQLLPESLRKRKRSRC
Endotoxin	≤ 1 EUs/μg, Kinetic LAL

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Purity	≥95%, Reducing and Non-Reducing SDS PAGE
Stability	12 months from date of receipt when stored at -20 to -80 centigrade as supplied. 1 month when stored at 4 centigrade after reconstituting as directed. 3 months when stored at -20 to -80 centigrade after reconstituting as directed.
Storage	Storage Prior to Reconstitution: -20 centigrade
Storage Buffer	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, 50 mM sodium chloride, pH 7.5
Reconstitution	Sterile water at 0.1 mg/mL
Shipping	Room temperature
Instructions	Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. If a precipitate is observed, centrifuge the solution thoroughly and use only the soluble fraction (removing it from the precipitate). A 10% overfill has been added to compensate for any loss of protein in the precipitate. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80 centigrade and avoid repeat freeze thaws.

GENE INFORMATION

Gene Name	<i>ifng</i> interferon gamma [<i>Mus musculus</i> (house mouse)]
Official Symbol	IFNG
Synonyms	IFNG; interferon gamma; IFN-gamma; gamma interferon; Ifg; IFN-g;

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Gene ID	15978
mRNA Refseq	NM_008337
Protein Refseq	NP_032363
UniProt ID	P01580

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