

## Active Recombinant Mouse IFNG Protein

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

### SPECIFICATION

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

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<b>Purity</b>	≥95%, Reducing and Non-Reducing SDS PAGE
<b>Stability</b>	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.
<b>Storage</b>	Storage Prior to Reconstitution: -20 centigrade
<b>Storage Buffer</b>	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, 50 mM sodium chloride, pH 7.5
<b>Reconstitution</b>	Sterile water at 0.1 mg/mL
<b>Shipping</b>	Room temperature
<b>Instructions</b>	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

<b>Gene Name</b>	<i>ifng</i> interferon gamma [ <i>Mus musculus</i> (house mouse) ]
<b>Official Symbol</b>	<b>IFNG</b>
<b>Synonyms</b>	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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