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Mouse IFN-γ protein

Cat #: PRP1961 Size: 20 μg/100 μg/500 μg/1 mg

Product Information

	Product Name: Mouse IFN-γ protein		
REF	**Catalog Number:** PRP1961	LOT	**Lot Number:** Refer to product label
	Purity: > 95 % as determined by SDS-PAGE		
	Storage: Store at -20°C		**Preparation method:** *E. coli*
	Shipping: The product is shipped at ambient temperature.		

Background: IFN gamma (IFN-γ), also known as IFNG, is a secreted protein which belongs to the type I I interferon family. IFN gamma is produced predominantly by natural killer and natural killer T cells as part of the innate immune response, and by CD4 and CD8 cytotoxic T lymphocyte effector T cells once antigen-specific immunity develops. IFN-γ has antiviral, immunoregulatory, and anti-tumor properties. IFNG, in addition to having antiviral activity, has important immunoregulatory functions, it is a potent activator of macrophages, and has antiproliferative effects on transformed cells and it can potentiate the antiviral and antitumor effects of the type I interferons. The IFNG monomer consists of a core of six α-helices and an extended unfolded sequence in the C-terminal region. IFN gamma is critical for innate and adaptive immunity against viral and intracellular bacterial infections and for tumor control. Aberrant IFN gamma expression is associated with a number of autoinflammatory and autoimmune diseases. The importance of IFN gamma in the immune system stems in part from its ability to inhibit viral replication directly, and most importantly from its immunostimulatory and immunomodulatory effects. IFNG also promotes NK cell activity.

Sequence: Amino acid sequence derived from Mouse IFN-γ protein soluble form (NP_P01580) (His23-Cys155) was expressed, was expressed with a polyhistidine tag at the N-terminus.

Protein length: The recombinant Mouse IFN-γ protein consists of 154 amino acids and predicts a molecular mass of 16.9 kDa.

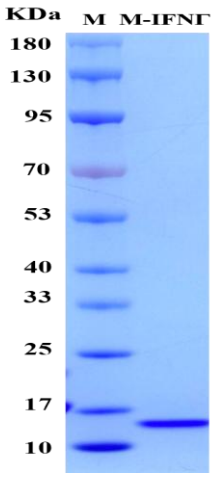
Endotoxin: <1 EU per μg of the protein by the LAL method.

Formulation: Lyophilized from sterile 150 mM NaCl 20 mM Tris , pH 8.0.

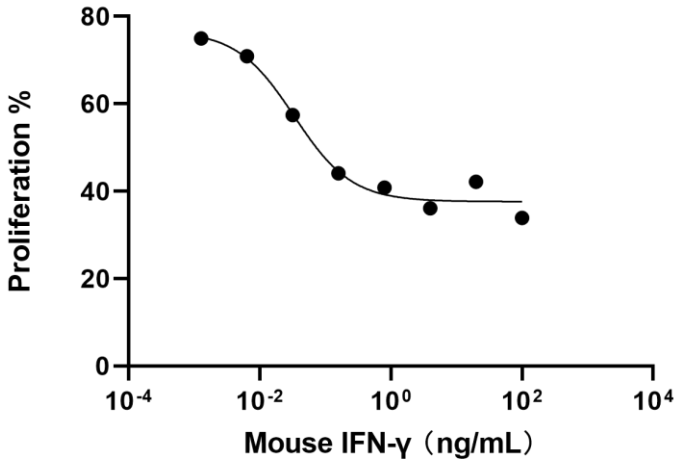
Storage Instructions: Lyophilized Mouse IFN-γ protein product should be stored desiccated below -20°C. Upon reconstitution, the protein should be stored at 4°C between 2-7 days and for future use below -20°C. For long term

storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Usage notes: Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized Mouse IFN-γ protein in sterile ddH_2O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.

	Fig. SDS-PAGE analysis of Mouse IFN-γ protein

Biological Activity: Measured in a cell proliferation assay using L929. The ED_{50} for this effect is typically 0.03 ng/mL. The specific activity of recombinant Mouse IFN-γ is approximately >3.33 x 10^7 IU/mg.



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