

## General Information

<b>Source</b>	<i>Escherichia coli</i>
<b>Synonyms</b>	IFN- $\gamma$ , Immune Interferon, type II interferon, T cell interferon, MAF
<b>Accession</b>	P01580
<b>Molecular Mass</b>	15.6 kDa
<b>Description</b>	Recombinant Mouse IFN- $\gamma$ is a 15.6 kDa protein containing 134 amino acid residues.
<b>Shipping</b>	The product is shipped at 4°C. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	Aliquot the reconstituted solution to minimize freeze-thaw cycles. Lyophilized protein should be stored at -20°C to -80°C, stable for one year after receipt. Aliquots of reconstituted samples are stable at $\leq$ -20°C for 3 months.
<b>Reconstitution</b>	Centrifuge tubes before opening. Dissolve the lyophilized protein in distilled water. Do not mix by vortex. It is recommended to dissolve the product at a concentration of twice the specified specification.
<b>Background</b>	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- $\gamma$ is species-specific and is biologically active only in human and primate cells.

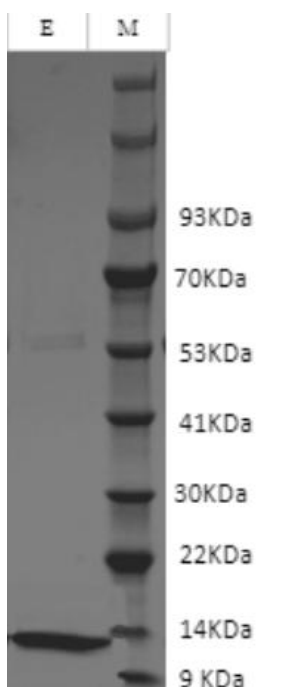
**Product For Research Use Only**

## Specifications

<b>Formulation</b>	Lyophilized from sterile PBS, pH 7.4, 5% trehalose.
<b>Purity</b>	≥95% as determined by SDS-PAGE
<b>Endotoxin</b>	<1 EU/ug
<b>Bio Activity</b>	Recombinant Mouse IFN-γ can be detected by ELISA with a linear range of 23 - 1,500 pg/mL.

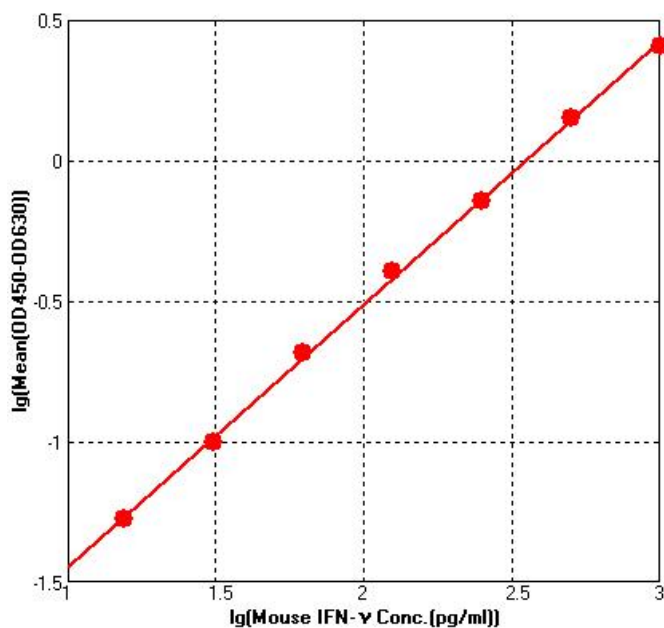
## Data

SDS-PAGE



Greater than 95% as determined by reducing SDS-PAGE.

Bioactivity-ELISA



Recombinant Mouse IFN-γ can be detected by ELISA with a linear range of 23 - 1,500 pg/mL.

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