General Information

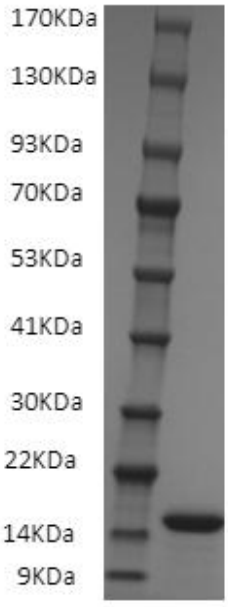
Source	*Escherichia coli*
Synonyms	Immune Interferon, type II interferon, T cell interferon, MAF
Accession	P01579
Molecular Mass	16.8 kDa
Description	Recombinant Human IFN-γ is a 16.8 kDa protein containing 144 amino acid residues.
Shipping	The product is shipped at 4℃. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Aliquot the reconstituted solution to minimize freeze-thaw cycles. Lyophilized protein should be stored at -20℃ to -80℃, stable for one year after receipt. Aliquots of reconstituted samples are stable at 2°C to 8°C for up to 1 week, or store the working aliquots with a carrier protein or stabilizer (e.g., 5% Trehalose) at -20℃ to -80℃ for 3 months.
Reconstitution	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.
Background	IFN-γ is an acid-labile interferon produced by CD4 and CD8 T lymphocytes as well as activated NK cells. IFN-γ receptors are present in most immune cells, which respond to IFN-γ signaling by increasing the surface expression of class I MHC proteins. This promotes the presentation of antigen to T-helper (CD4+) cells. IFN-γ signaling in antigen-presenting cells, and antigen-recognizing B and T lymphocytes, regulates the antigen-specific phases of the immune response. Additionally, IFN-γ stimulates a number of lymphoid cell functions, including the anti-microbial and anti-tumor responses of macrophages, NK cells, and neutrophils. Human IFN-γ is species-specific and is biologically active only in human and primate cells.

Specifications

Formulation	Lyophilized from sterile PBS, pH 7.4, 5% trehalose.
Purity	≥95% as determined by SDS-PAGE
Endotoxin	<0.1 EU/ug
Bioactivity	Recombinant IFN-γ can be detected by ELISA with a linear range of 15.6-1,000.0 pg/mL.

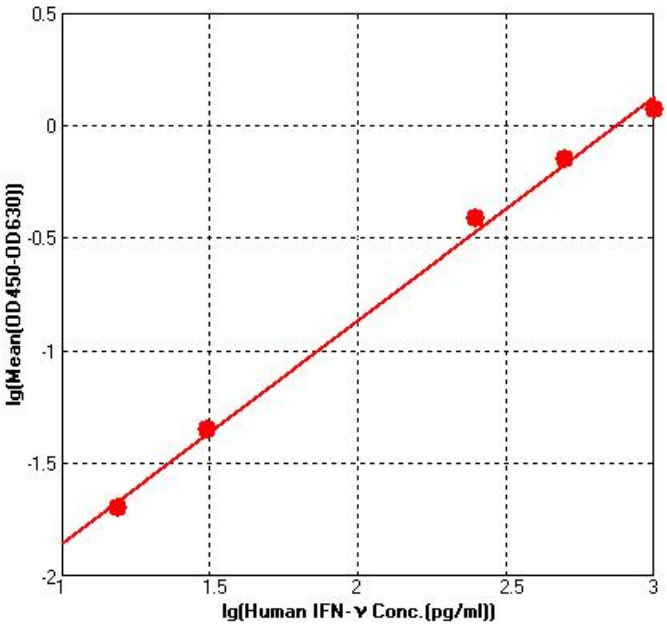
Data

SDS-PAGE



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

Bioactivity-ELISA



Recombinant Human IFN-γ can be detected by ELISA with a linear range of 15.6-1,000.0 pg/mL.