

IFN-gamma Murine E. coli

Product Data Sheet

Type: Recombinant	Cat. No.:	
Source: E. coli	RBG20078020	(20 µg)
Species: Murine	RBG20078100	(100 µg)
Other names: Immune Interferon, type II interferon, T cell interferon, MAF	RBG20078250	(250 µg)

Description

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. Recombinant Murine IFN- γ is a 15.6 kDa protein containing 134 amino acid residues.

Introduction to the Molecule

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Research topic

Cardiovascular disease, Coronary artery disease, Diabetology - Other Relevant Products, Immune Response, Infection and Inflammation, Neural tissue markers, Oncology, Transplantation

Amino Acid Sequence

MHGTVIESLE SLNNYFNSSG IDVEEKSLFL DIWRNWKDG DMKILQSQII SFYLRLEFEVL KDNQAISNNI SVIESHLITT
FFSNSKAKKD AFMSIAKFEV NNPQVQRQAF NELIRVVHQL LPESLRRKRK RSRC

Source

E. coli

Purity

98%

Biological Activity

Determined by its ability to inhibit the proliferation of murine WEHI-279 cells. The expected ED50 is \approx 0.2 ng/ml, corresponding to a specific activity of \approx 5×10^6 units/mg.

Endotoxin

Endotoxin level is <0.1 ng/ μ g of protein (<1 EU/ μ g).

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in 5-10mM Sodium Phosphate, pH 8.0 to a concentration of 1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C .

Storage, Stability/Shelf Life

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