

Recombinant Murine IFN-y

CATALOG #: 4117-20 20 μg

4117-100 100 μg 4117-1000 1 mg

LOT #:

SOURCE: E. coli

PURITY: >95% by SDS-PAGE and HPLC analysis

Endotoxin level is <0.1 ng per μg of IFN-γ.

MOL. WEIGHT: 15.6 kDa

Lyophilized from 10 mM Na₂PO₄, pH 7.0 + 25 mM NaCl FORMULATION:

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in ddH₂O to a concentration of 1 mg/ml. Further dilutions should be made into RPMI + 10% FCS and stored at 4°C for 1 week or -20°C for future use.

STORAGE CONDITIONS:

The lyophilized IFN-γ is best-stored desiccated below 0°C. Reconstituted IFN-γ should be stored at working aliquots at -20°C.

DESCRIPTION:

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 regulate the antigenspecific 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. Recombinant murine IFN-gamma is a 15.6 kDa protein containing 134 amino acid residues.

BIOLOGICAL ACTIVITY:

The ED₅₀ as determined by a cytopathic affect inhibition assay with murine NIH 3T3 cells challenged with VSV virus is ≤ 0.1 ng/ml, corresponding to a specific activity of $\geq 1 \times 10^7$ units/mg.

FOR RESEARCH USE ONLY! Not to be used on humans.

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