

Recombinant Murine IFN- γ

CATALOG #: 4117-20 20 μ g
4117-100 100 μ g
4117-1000 1 mg

SOURCE: *E. coli*

PURITY: >95% by SDS-PAGE and HPLC analysis
Endotoxin level is \leq 1 EU/ μ g of IFN- γ .

MOL. WEIGHT: 15.6 kDa

FORMULATION: Lyophilized from 0.5 X PBS, pH 7.2

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in ddH₂O to a concentration of 0.1 mg/ml. Additional carrier protein (0.1% HSA or BSA) is recommended for long term storage.

STORAGE CONDITIONS:

The lyophilized IFN- γ is best stored at -20°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 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. Recombinant murine IFN-gamma is a 15.6 kDa protein containing 134 amino acid residues.

BIOLOGICAL ACTIVITY:

The activity is determined in a viral challenge assay using EMC virus on L929 cells and is typically less than 0.2 ng/mL.

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