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RECOMBINANT MOUSE IFN-g

Catalog # 02746 100 mg per vial

PRODUCT DESCRIPTION:

Interferon-γ (IFN-γ), also known as Type II interferon or immune interferon, is a highly species-specific pleiotropic cytokine produced primarily by T and NK cells. IFN-γ exerts antiviral, antiproliferative, immunoregulatory and proinflammatory activities. It induces the production of cytokines, upregulates the expression of class I and II MHC antigens, Fc receptor and leukocyte adhesion molecules. It modulates macrophage effector functions, influences isotype switching and potentiates the secretion of immunoglobulins by B cells. IFN-γ also augments TH1 cell expansion and may be required for TH1 cell differentiation. Mature IFN-γ exists as noncovalently-linked homodimers. Recombinant mouse IFN-γ is a 16 kDa protein containing 134 amino acid residues.

SOURCE:

A DNA sequence encoding the mature mouse IFN-γ protein lacking the N-terminal amino acid residues cys-tyr-cys was expressed in E. coli.

PURITY:

Greater than 97% as determined by SDS-PAGE and visualized by silver stain. Endotoxin level is less than 0.1 ng per µg of the cytokine, as determined by the LAL method.

FORMULATION:

Lyophilized from a 0.2 filtered solution in PBS and containing 50 µg of bovine serum albumin per 1 µg of cytokine.

RECONSTITUTION:

It is recommended that sterile PBS containing at least 0.1% human serum albumin or bovine serum albumin be added to the vial to prepare a stock solution of no less than 5 μ g/mL of the cytokine.

STABILITY/STORAGE:

Lyophilized samples are stable for greater than six months at -20°C to -70°C.

Upon reconstitution, mouse IFN- γ can be stored under sterile conditions at 2° - 4°C for one month or at -20°C to -70°C for three months without detectable loss of activity.

Avoid repeated freezing and thawing.

ACTIVITY:

Activity was determined by measuring the antiviral effect using L-929 cells infected with EMC virus and the ED₅₀ using this assay was typically 0.3-0.9 ng/mL.

THIS REAGENT IS FOR RESEARCH USE ONLY. IT IS NOT TO BE ADMINISTERED TO HUMANS.

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