

Recombinant Murine Interferon-gamma(rMuIFN-y) Product Manual

◆Cat.No.: GXP87105

♦ Description

Interferon-gamma (IFN- γ), also known as Type II interferon or immune interferon, is a cytokine produced primarily by T-lymphocytes and natural killer cells. The protein shares no significant homology with IFN- β or the various IFN- α family proteins. Mature IFN- γ exists as noncovalently-linked homodimers. It shares high sequence indentity with rat IFN- γ (86 %). IFN- γ was originally characterized based on its antiviral activities. The protein also exerts antiproliferative, immunoregulatory and proinflammatory activities and is thus important in host defense mechanisms. IFN- γ 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. Additionally, IFN- γ augments TH1 cell expansion and may be required for TH1 cell differentiation. Recombinant murine IFN- γ is a 15.5kDa globular protein containing 133 amino acid residues.

Product Information

Product Name Recombinant murine Interferon-gamma(rMuIFN- γ)

Source Expressed in E. coli.

Molecular weight Approximately 15.5kDa, a single non-glycosylated polypeptide chain containing 133 amino acids.

Accession His23-Cys155

AA Sequence HGTVIESLESLNNYFNSSGIDVEEKSLFLDIWRNWQKDGDMKILQSQIISFYLRLFEVLKDNQAISNNIS

VIESHLITTFFSNSKAKKDAFMSIAKFEVNNPQVQRQAFNELIRVVHQLLPESSLRKRKRSRC

Purity > 97% by SDS-PAGE or HPLC.

Biological activity Fully biologically active when compared to standard. The ED_{50} as determined by an anti-viral assay

using murine L929 cells infected with encephalomyocarditis (EMC) virus is less than 0.8ng/ml,

corresponding to a specific activity of >1.3×106IU/mg

Formulation Lyophilized from a 0.2µm filtered concentrated solution in 20 mM Tris-HCl pH8.0, 300 mM NaCl,

containing 5% trehalose, 0.05% Tween-20.

Endotoxin level

<0.1EU/µg rMulFN- γ protein as determined by LAL method.

Reconstitution

Before use this product, please read the direction below carefully.

- 1. This vial must be briefly centrifuged prior to opening to bring the contents to the bottom.
- 2. Reconstitute in a sterile aqueous buffer 20 mM Tris-HCl pH8.0 with 50 mM NaCl to a concentration of 0.1-0.3 mg/ml.

Stock solutions should be apportioned into working aliquots and stored at \leq -20 °C . Further dilutions should be made in appropriate buffered solutions.

Storage/ Stability

White lyophilized powder. For long term storage, the product should be stored ≤-20℃.

36 months, -20 to -70 $^{\circ}$ C as supplied.

1 month, 2 to 8 $^{\circ}$ C under sterile conditions after reconstitution; 3 months, -20 to -70 $^{\circ}$ C under sterile conditions after reconstitution.

Please avoid repeated freeze-thaw cycles.

THIS PRODUCT IS FOR RESEARCH, LABORATORY AND EVALUATION PURPOSE ONLY.

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