

Prime Gene Recombinant Rhesus Macaque Interferon-gamma (rRhIFN-y)

PrimeGene Technical Data Sheet

116-06 **Catalog Number:**

Source: Escherichia coli.

Molecular Weight: Approximately 16.8 kDa, a single non-glycosylated polypeptide chain containing 142 amino acids.

Quantity: $10\mu g/50\mu g/1000\mu g$

AA Sequence: ODPYVKEAEN LKKYFNAGDP DVADNGTLFL DILRNWKEES DRKIMOSOIV

SFYFKLFKNF KDDQRIQKSV ETIKEDINVK FFNSNKKKRD DFEKLTNYSV

TDSNVQRKAV HELIQVMAEL SPAAKIGKRK RSQMFRGRRA SQ

Purity: > 97 % by SDS-PAGE and HPLC analyses.

Fully biologically active when compared to standard. The ED₅₀ as determined by an anti-viral assay **Biological Activity:**

using human HeLa cells infected with encephalomyocarditis (EMC) virus is less than 20.0 ng/ml,

corresponding to a specific activity of $> 5.0 \times 10^4$ IU/mg.

Sterile Filtered White lyophilized (freeze-dried) powder. Physical Appearance:

Formulation: Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.

Endotoxin: Less than 0.1 EU/ μg of rRhIFN- γ as determined by LAL method.

Reconstitution: We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the

> bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 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.

Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature

recommended below.

Stability & Storage: Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

12 months from date of receipt, -20 to -70 °C as supplied.

1 month, 2 to 8 °C under sterile conditions after reconstitution.

3 months, -20 to -70 °C under sterile conditions after reconstitution.

Usage: This material is offered by Shanghai PrimeGene Bio-Tech for research, laboratory or further

evaluation purposes. NOT FOR HUMAN USE.

Rhesus Macaque Interferon-gamma

Interferon-gamma (IFN-γ), also known as Type II interferon or immune interferon, is a cytokine produced primarily by Tlymphocytes 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. 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-y 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-y also augments TH1 cell expansion and may be required for TH1 cell differentiation.

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