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Recombinant Human Interferon-gamma (IFN- γ) (AF)

CLY100-77AF-20UG
CLY100-77AF-100UG
CLY100-77AF-250UG
CLY100-77AF-500UG
CLY100-77AF-1MG

Description: Interferon gamma, IFN γ , is a major immune-modulating molecule produced mainly by T cells and natural killer cells activated by antigens, mitogens or alloantigens. Most immune cells express IFN- γ receptors and respond to IFN γ -induced signaling by up-regulating MHC class I expression. Human IFN γ does not show cross-reactivity with mouse. Recombinant human IFN γ is a non-glycosylated protein, containing 144 amino acids, with a molecular weight of 16.88 kDa.

Source: *E.coli*. This product is produced with no animal or human origin raw products. All processing and handling employs animal free equipment and animal free protocols.

Presentation: 20 μ g (CLY100-77AF-20UG), 100 μ g (CLY100-77AF-100UG), 250 μ g (CLY100-77AF-250UG), 500 μ g (CLY100-77AF-500UG) or 1 mg (CLY100-77AF-1MG), sterile filtered white lyophilized (freeze-dried) powder. Recombinant human IFN γ is lyophilized from 5 mM Na₂PO₄, pH 7.2 and 50 mM NaCl.

Reconstitution: Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.

Stability: Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

Protein Content and Purity: Typically \geq 95%, determined by HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm.

Biological Activity: The activity is measured in antiviral assays using virally infected L929 cells and is typically less than 0.1 ng/mL.

AA Sequence: MQDPYVKEAE NLKKYFNAGH SDVADNGTLF LGILKNWKEE SDRKIMQSQI
VSFYFKLFDKN FKDDQSIQKS VETIKEDMNV KFFNSNKKKR DDFEKLTYNS VTDLNVQRKA
IHელიQVMAE LSPAAGTKGR KRSQMLFQGR RASQ

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