

Interferon-Gamma Rat Recombinant

Item Number	rAP-0461
Synonyms	Immune Interferon, type II interferon, T cell interferon, MAF, IFNG, IFG, IFI, IFN-gamma.
Description	Interferon-gamma Rat Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 135 amino acids and having a molecular mass of 15609 Dalton. The IFN-gamma is purified by proprietary chromatographic techniques.
Uniprot Accession Number	P01581
Amino Acid Sequence	The sequence of the first five N-terminal amino acids was determined and was found to be Met-Gln-Gly-Tyr-Leu.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized Interferon-gamma although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IFN-gamma should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Formulation and Purity	Lyophilized from a 0.2µm filtered concentrated (1mg/ml) solution in PBS, pH 7.4. Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized Interferon-gamma in sterile 18MΩ-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The specific activity as determined by the cytopathic affect inhibition assay with murine L929 cells challenged with EMC virus was $\geq 0.1 \text{ ng/ml}$, corresponding to a specific activity of 10,000,000units/mg.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**