

## Interferon-Gamma Human Recombinant

<b>Item Number</b>	rAP-0454
<b>Synonyms</b>	Immune Interferon, type II interferon, T cell interferon, MAF, IFNG, IFG, IFI, IFN-gamma.
<b>Description</b>	Interferon-gamma Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 144 amino acids and having a molecular mass of 17kDa. The IFN-gamma is purified by proprietary chromatographic techniques.
<b>Uniprot Accession Number</b>	P01579
<b>Amino Acid Sequence</b>	MQDPYVKEAE NLKKYFNAGH SDVADNGTLF LGILKNWKEE SDRKIMQSQI VSFYFKLFKN FKDDQSIQKS VETIKEDMNV KFFNSNKKKR DDFEKLTNYS VTDLNVQRKA IHELIQVMAE LSPAAGTKGR KRSQMLFQGR RASQ.
<b>Source</b>	Escherichia Coli.
<b>Physical Appearance and Stability</b>	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.
<b>Formulation and Purity</b>	The protein was lyophilized from a 0.2µm filtered concentrated solution in PBS pH 4.6. Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
<b>Application</b>	
<b>Solubility</b>	It is recommended to reconstitute the lyophilized Interferon-gamma in sterile distilled water or 20mM AcOH not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
<b>Biological Activity</b>	The specific activity as determined in a viral resistance assay is <math>0.05 \text{ ng/ml}</math>, corresponding to a specific activity of $2.0 \times 10,000,000 \text{ IU/mg}</math>.$
<b>Shipping Format and Condition</b>	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**