

## Interferon-gamma Canine Recombinant

<b>Item Number</b>	rAP-0463
<b>Synonyms</b>	Immune Interferon, type II interferon, T cell interferon, MAF, IFNG, IFG, IFI, IFN-gamma.
<b>Description</b>	Recombinant IFNG Dog produced in E.coli cells is a non-glycosylated, homodimeric protein containing 143 amino acid chain and having a molecular mass of 16.9kDa. IFNG is purified by proprietary chromatographic techniques.
<b>Uniprot Accesion Number</b>	P42161
<b>Amino Acid Sequence</b>	QAMFFKEIEN LKEYFNASN P DVSDGGSLF V DILKKWREES DKTIIQSQIV SFYLKLF DNF KDNQIIQRSM D TIKEDMLGK F LNSSTSKRE DFLKLIQIPV NDLQVQRKAI NELIKVMNDL SPRSNL RKRK RSQNLFRGRR ASK
<b>Source</b>	Escherichia Coli.
<b>Physical Appearance and Stability</b>	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized IFNG although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IFNG 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 IFNG was lyophilized from a 0.2µm filtered concentrated solution in 25mM Sodium Succinate, pH 5.0, 60mM NaCl, with 0.1% Tween-80. Greater than 97.0% 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 IFNG in sterile distilled H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
<b>Biological Activity</b>	The ED50 as determined by an anti-viral assay using A-72 canine fibroma cells infected with vesicular stomatitis virus (VSV) is less than 2.0 ng/ml, corresponding to a specific activity of > 5.0 × 105 IU/mg.
<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**