
Product Data Sheet

Product Name: IFNG Canine
 Cat. No.: GP20403
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Immune Interferon; type II interferon; T cell interferon; MAF; IFNG; IFG; IFI; IFN-gamma.		
Amino Acid Sequence	QAMFFKEIEN LKEYFNASNP DVSDGGSLFV DILKKWREES DKTIIQSQIV SFYLKLFDFNF KDNQIIQRSM DTIKEDMLGK FLNSSTSKRE DFLKLIQIPV NDLQVQRKAI NELIKVMNDL SPRSNLRKRK RSQNLFRGRR ASK		
Solubility	It is recommended to reconstitute the lyophilized IFNG in sterile distilled H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	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.		

Introduction

IFN-gamma produced by lymphocytes activated by specific antigens or mitogens. IFN-gamma, in addition to having antiviral activity, has important immunoregulatory functions, it is a potent activator of macrophages, and has antiproliferative effects on transformed cells and it can potentiate the antiviral and antitumor effects of the type I interferons.

Biological Activity

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.

Stability

Lyophilized IFNG although stable at room temperature for 3 weeks, should be stored

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

Background

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.

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