
Product Data Sheet

Product Name: IFN g Equine
 Cat. No.: GP20402
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Interferon gamma; IFN-gamma; IFNG.		
Amino Acid Sequence	QAAFFKEIEN LKEYFNASNP DVGDGGPLFL DILKNWKEDS DKKIIQSQIV SFYFKLFENL KDNQVIQKSM DTIKEDLFVK FFNSSTSKLE DFQKLIQIPV NDLVQRKAI SELIKVMNDL SPKANLRKRK RSQNPFRGRR ALQ.		
Solubility	It is recommended to reconstitute the lyophilized Interferon-gamma in sterile 18M-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4 and 5% trehalose.		

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 human HeLa cells infected with encephalomyocarditis (EMC) virus is less than 10.0 ng/ml, corresponding to a specific activity of > 1.0 6⁻¹ 10⁵ IU/mg.

Stability

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

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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 Equine Interferon-gamma produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 143 amino acids and having a molecular mass of 16.7kDa.The IFN-gamma Equine is purified by proprietary chromatographic techniques.

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