



Interferon gamma, equine recombinant (reIFN gamma)

Catalog No: 97648
Lot No: XXXXX
Source: *E. coli*
Synonyms: Interferon gamma, IFN-gamma, IFNG

Background

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.

Description

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 16.7 kDa. IFN-gamma Equine is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4 and 5% trehalose.

Solubility

It is recommended to reconstitute the lyophilized Interferon-gamma in sterile 18 MΩ-cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

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 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.

Purity

Greater than 97.0% as determined by (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE.

Amino Acid Sequence

QAAFFKEIEN LKEYFNASNP DVGDDGGLFL DILKNWKEDS DKKIIQSQIV SFYFKLFENL KDNQVIQKSM DTIKEDLFVK
FFNSSTSKLE DFQKLIQIPV NDLVQQRKAI SELIKVMNDL SPKANLRKRK RSQNPFRGRR ALQ

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 × 10⁵ IU/mg.

Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.

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