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- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Interferon beta1b, human recombinant (rHuIFN-beta1b)

Catalog No: 52620
Lot No: XXXXX
Source: *E. coli*
Synonyms: Leukocyte interferon, B cell interferon, Type I interferon, IFNB1, IFB, IFF, IFNB, IFN-b 1b, MGC96956

Background

Interferon-beta 1b has antiviral, antibacterial and anticancer activities.

Description

Interferon beta 1b human recombinant produced in *E. coli* is a single, non-glycosylated mutein (variant form) of human Interferon beta-1b polypeptide chain containing 165 amino acids and having a molecular mass of 18510.86 Dalton. The IFN-beta gene was cloned from human fibroblasts and altered to substitute Serine for the Cysteine residue found at position 17. IFN beta-1b is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

Lyophilized from 1 mg/ml solution containing 50 mg human albumin and 50 mg dextrose.

Solubility

It is recommended to reconstitute the lyophilized IFN-b 1b in sterile 18 M Ω -cm H₂O not less than 100 μ g/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized Interferon-beta 1b, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IFNB 1b should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

Purity

Greater than 98.0% as determined by (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE.

Amino Acid Sequence

The sequence of the first five N-terminal amino acids was determined and was found to be Ser-Tyr-Asn-Leu-Leu.

Activity

The specific activity as determined in a viral resistance assay (human "Wish" cell line and VSV virus or the monkey VERO cell line with EMCV virus) was found to be 32 x 10⁶ IU/mg.

Usage

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