



Interferon alpha2b, human recombinant (rHuIFN-alpha2b)

Catalog No: 57058
Lot No: XXXXX
Source: *E. coli*
Synonyms: Interferon alpha 2b, IFNA, INFA2, MGC125764, MGC125765

Background

IFN-alpha is produced by macrophages and has antiviral activities. Interferon stimulates the production of two enzymes: protein kinase and an oligoadenylate synthetase.

Description

Interferon alpha 2b human recombinant produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 166 amino acids and having a molecular mass of 19400 Dalton. The Interferon alpha 2b gene was obtained from human leukocytes. IFN-a 2b is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

Lyophilized from a (1 mg/ml) solution in containing 2.3 mg sodium phosphate dibasic and 0.55 mg sodium phosphate monobasic buffer.

Solubility

It is recommended to reconstitute the lyophilized IFN-a 2b 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, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IFN alpha 2b 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 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 Met-Cys-Asp-Leu-Pro.

Activity

The specific activity as determined in a viral resistance assay using bovine kidney MDBK cells was found to be 260,000,000 IU/ mg.

Usage

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