



Interferon alpha1b, human recombinant (rHuIFN-alpha1b)

Catalog No: 87390
Lot No: XXXXX
Source: *E. coli*
Synonyms: Interferon alpha-D

Background

IFN-alpha 1b is produced by macrophages, IFN-alpha 1b has antiviral activities and stimulates the production of two enzymes: a protein kinase and an oligoadenylate synthetase.

Description

Interferon alpha 1b human recombinant produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 166 amino acids and having a molecular mass of 19392 Dalton. The Interferon alpha 1b gene was obtained from human leukocytes. IFN-a 1b is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

Lyophilized from a 0.2 µm filtered solution (50ug/ml) in PBS, pH 7.4, containing 4% mannitol and 1% HSA.

Solubility

It is recommended to reconstitute the lyophilized IFN-a 1b 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 alpha 1b, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IFN-alpha 1b 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 96.0% 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 Cys-Asp-Leu-Pro-Glu.

Activity

The specific activity as determined in a viral resistance assay using bovine kidney MDBK cells was found to be 1 x 10⁸ 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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