

RayBiotech, Inc.

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Certificate of Analysis and Data Sheet Recombinant Human Interferon-alpha 1b

Catalog No.
228-10816

Source:
Escherichia Coli

Introduction

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.

The IFN-a 1b 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 20 mg HSA and 7.5 mg sodium chloride.

Solubility

It is recommended to reconstitute the lyophilized IFN alpha 1b in sterile 18MΩ-cm H₂O not less than 100μg/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.

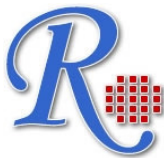
Purity

Greater than 98.0% as determined by

(a) Analysis by RP-HPLC.

(b) Analysis by SDS-PAGE.

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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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.

Biological Activity

The specific activity as determined in a viral resistance assay using bovine kidney MDBK cells was found to be 1 x 100,000,000 IU/ mg.

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