



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet Recombinant Human Interferon-beta 1a

Catalog No.
228-10822

Source
CHO (Chinese Hamster Ovarian) cells

Synonyms

Leukocyte interferon, B cell interferon, Type I interferon, IFNB1, IFB, IFF, IFNB, IFN-b 1a, MGC96956.

Introduction

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

Description

Interferon-beta 1a Human Recombinant produced in CHO (Chinese Hamster Ovarian) cells is a single, glycosylated polypeptide chain containing 166 amino acids and having a molecular mass of 22500 Dalton.

IFN-beta1a is purified by proprietary chromatographic techniques.

Formulation

Lyophilized from 1mg/10ml solution containing 91 mg Human Albumin, and 620mg mannitol, and 9 mg Sodium Acetate.

Solubility

It is recommended to reconstitute the lyophilized Interferon beta 1a in sterile 18MΩ-cm H₂O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized Interferon-beta 1a although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IFN-Beta1a 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.

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



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Biological 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 270MIU/mg.

Amino acid sequence

MSYNLLGFLQ RSSNFQCQKL LWQLNGRLEY CLKDRMNFDI PEEIKQLQQF QKEDAALTIY
EMLQNIFAIF RQDSSSTGWN ETIVENLLAN VYHQINHLKT VLEEKLEKED FTRGKLMSSL
HLKRY YGRIL HYLKAKEYSH CAWTIVRVEI LRNFYFINRL TGYLRN.

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