



Interferon beta1a, human recombinant (rHuIFN-beta1a-CHO)

Catalog No: 86421
Lot No: XXXXX
Source: CHO cells
Synonyms: Leukocyte interferon, B cell interferon, Type I interferon, IFNB1, IFB, IFF, IFNB, IFN-b 1a, MGC96956

Background

Interferon-beta 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 22,500 Dalton. IFN-beta1a is purified by proprietary chromatographic techniques.

Formulation

Lyophilized from a 1 mg/3.4 ml solution containing 91 mg human albumin and 620 mg mannitol and 50 mM acetic acid pH 3.8.

Solubility

It is recommended to reconstitute the lyophilized IFN-b 1a 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 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 99.0% as determined by (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE.

Amino Acid Sequence

MSYNLLGFLQ RSSNFQCQKL LWQLNGRLEY CLKDRMNFDI PEEIKQLQQF QKEDAALTIY EMLQNIFAIF RQDSSSTGWN
ETIVENLLAN VYHQINHLKT VLEEKLEKED FTRGKLMSSL HLKRYYGRIL HYLKAKEYSH CAWTIVRVEI LRNFYFINRL
TGYLRLN

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 270 x 10⁶ 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.

CONTACT US TODAY

BIOMOL GmbH • Kieler Straße 303a • 22525 Hamburg • Germany • info@biomol.de • www.biomol.de

Fon: +49 (0)40-853 260 0 • TOLL FREE IN GERMANY: Fon: 0800-246 66 51