

IFN b 1a Human

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.

Catalog #: CYPs-243

For research use only.

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

Source: CHO (Chinese Hamster Ovarian) cells.

Amino Acid Sequence: MSYNLLGFLQ RSSNFQCQKL LWQLNGRLEY CLKDRMNFDI
PEEIKQLQQF QKEDAALTIY EMLQNIFAIF RQDSSSTGWN ETIVENLLAN VYHQINHLKT
VLEEKLEKED FTRGKLMSSL HLKRYYYGRIL HYLKAKEYSH CAWTIVRVEI LRNFYFINRL
TGYLRN.

Purity: Greater than 99.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Formulation:

Lyophilized from a solution (1mg/3.4ml) containing 50mM Acetate acid pH 3.8.

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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:

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

Introduction:

Interferon-beta has antiviral, antibacterial and anticancer activities.

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 270 x 106 IU/mg.

References:

Title: Interferon- induces apoptosis in human SH-SY5Y neuroblastoma cells through activation of JAK/STAT signaling and down-regulation of PI3K/Akt pathway. Publication: Article first published online: 11 NOV 2010
DOI: 10.1111/j.1471-4159.2010.07046.x Link: <http://onlinelibrary.wiley.com/doi/10.1111/j.1471-4159.2010.07046.x/full>

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