

IFN b 1b Human

Description: Interferon beta 1b Human Recombinant produced in E.Coli is a single, non-glycosylated mutein (variant form) of human Interferon beta-1b polypeptide chain containing 165 amino acids and having a molecular mass of 18510.86 Dalton. The IFN-beta gene was cloned from human fibroblasts and altered to substitute Serine for the Cysteine residue found at position 17. IFN beta-1b is purified by proprietary chromatographic techniques.

Catalog #: CYPs-241

For research use only.

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

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Amino Acid Sequence: The sequence of the first five N-terminal amino acids was determined and was found to be Ser-Tyr-Asn-Leu-Leu.

Purity: Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Formulation:

Lyophilized from 1mg/ml solution containing 50mg Human Albumin & 50mg dextrose.

Stability:

Lyophilized Interferon-beta 1b although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IFNB 1b 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-1b in sterile 18M-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Introduction:

Interferon-beta 1b 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 32 x 10⁶ IU/mg.

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