

IFN a 2b Human

Description: Interferon-a 2b Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 166 amino acids and having a molecular mass of 19400 Dalton. The Interferon-alpha 2b gene was obtained from human leukocytes. The IFN-a 2b is purified by proprietary chromatographic techniques.

Synonyms: Interferon alpha 2b, IFNA, INFA2, MGC125764, MGC125765.

Source: Escherichia Coli.

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

Amino Acid Sequence:

MCDLPQTHSLGSRRTLMLLAQMRRISLFSLKDRHDFGFPQEEFGNQFQKAETIPVLHEMIQQIF
NLF
STMDSSAAWDETLLDKFYTELYQQLNDLEACVIQGVGVGTETPLMKEDSILAVRKYFQRITLYLKEK
KYSP CAWEVVRAEIMRSFSLSTNLQESLRSKE.

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

Formulation:

Lyophilized from a (1 mg/ml) solution in containing 2.3 mg Sodium phosphate dibasic and 0.55 mg sodium phosphate monobasic buffer.

Stability:

Lyophilized Interferon although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IFN alpha 2b 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.

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-alpha 2b in sterile 18M-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Introduction:

IFN-alpha is produced by macrophages and has antiviral activities. Interferon stimulates the production of two enzymes: protein kinase and an oligoadenylate synthetase.

Biological Activity:

The specific activity as determined in a viral resistance assay using bovine kidney MDBK cells was found to be 260,000,000 IU/ mg.

References:

Title: Interferon- induces apoptosis in human SH-SY5Y neuroblastoma cells through activation of

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JAKSTAT 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 © 2010 The Authors. Journal of

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