



Interferon alpha 2b Human, E. coli Recombinant Protein

Product Data Sheet

Cat. No.: A32050100 A32051100
Size: 100 μ g 1 mg

Description:

IFN- α 2b Human Recombinant produced in E. coli is a single, non-glycosylated, polypeptide chain containing 166 amino acids and has a molecular mass of 19400 Dalton. The difference between IFNA2A and IFNA2B is in the amino acid present at position 23. IFN- α 2a has a lysine at that position 23 while IFN- α 2b has arginine.

The IFN- α 2b gene was obtained from human leukocytes.

The IFN- α 2b is purified by proprietary chromatographic techniques.

Summary:

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

Amino Acid Sequence:

MCDLPQTHSL GSRRTLMLLA QMR**R**ISLFSC LKDRHDFGFP QEEFGNQFQK AETIPVLHEM
IQQIFNLFST KDSSAAWDET LLDKFYTELY QQLNDLEACV IQGVGVTTETP LMKEDSILAV
RKYFQRITLY LKEKKYSPCA WEVVRAEIMR SFSLSTNLQE SLRSKE

Purity:

Greater than 98.0%

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.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

update.: 072021

Ilex Life Sciences LLC

1465 Sand Hill Rd, Suite 2018, Candler, NC 28715

Tel: 828-531-9949; Email: info@ilexlife.com

Web: www.ilexlife.com

**Formulation:**

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

Solubility:

It is recommended to reconstitute the lyophilized IFN-alpha 2b in sterile 18MΩ-cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability:

Lyophilized IFN 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:

Ilex Life Sciences 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.

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