

## Certificate of Analysis

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Product Name: IFN a 2a Human  
Cat. No.: GP20383  
Batch No.: 3

### Product Data

|                     |                                                                                                                                                                                                                                                          |                    |                 |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------|
| Purity              | > 95% as analyzed by SDS-PAGE<br>> 95% as analyzed by HPLC                                                                                                                                                                                               | Source             | E. coli         |
| Physical Appearance | Sterile Filtered White lyophilized (freeze-dried) powder.                                                                                                                                                                                                | Shipping Condition | Shipped at ice. |
| Synonyms            | Leukocyte IFN; B cell IFN; Type I IFN; IFNA2; IFN-a 2a.                                                                                                                                                                                                  |                    |                 |
| Amino Acid Sequence | CDLPQTHSLGSRRTLMLLAQMRKISLFSCLKDRHDFGFPQEEFGNQFQKAETIPVL<br>HEM<br>IQQIFNLFSTKDSSAAWDETLLDKFYTELYQQQLNDLEACVIQGVGVVTETPLMKEDSIL<br>AV RKYFQRITLYLKEKKYSPCAWEVVRAEIMRSFSLSTNLQESLRSKE.N-terminal<br>methionine has been completely removed enzymatically. |                    |                 |
| Formulation         | Lyophilized after extensive dialysis against PBS.                                                                                                                                                                                                        |                    |                 |

### Introduction

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

### Biological Activity

ED<sub>50</sub> < 0.1 ng/ml, measured by a cytotoxicity assay using TF-1 Cells, corresponding to a specific activity of > 1.0 × 10<sup>7</sup> U/mg.

### Stability

Upon receiving, this product remains stable for 6 months at lower than -70°C. Upon reconstitution, the product should be stable for 1 week at 4°C or for 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

### Background

**Caution: Product has not been fully validated for medical applications. For research use only.**

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IFNAlpha Human 2a Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 165 amino acids and having a molecular mass of 19241 Dalton. The difference between IFNA2A and IFNA2B is in the amino acid present at position 23. IFN-alpha 2a has a lysine at that position 23 while IFN-alpha 2b has arginine. The IFNA2A gene was obtained from human leukocytes. The IFNA2A is purified by proprietary chromatographic techniques.

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