

---

## Product Data Sheet

---

Product Name: IFN a 2a Human

Cat. No.: GP20383

Batch No.: 1

**Product Data**

Purity	Greater than 97.0% as determined by both:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.	Source	Escherichia Coli.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.	Shipping Condition	Shipped at Room temp.
Synonyms	Leukocyte IFN; B cell IFN; Type I IFN; IFNA2; IFN-a 2a.		
Amino Acid Sequence	CDLPQTHSLGSRRTLMLLAQMRKISLFSCLKDRHDFGFPQEFGNQFQKAETIPVLHEM IQQIFNLFSTKDSSAAWDETLLDKFYTELYQQLNDLEACVIQGVGTETPLMKEDSILAV RKYFQRITLYLKEKKYSPCAWEVVRAEIMRSFSLSTNLQESLSKE.N-terminal methionine has been completely removed enzymatically.		
Solubility	It is recommended to reconstitute the lyophilized IFNA2A in sterile 18MΩ-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized without additives.		

**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**

The specific activity as determined in a viral resistance assay using bovine kidney MDBK cells was found to be 270,000,000 IU/mg.

**Stability**

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

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

---

---

## Product Data Sheet

---

### Background

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.

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

**Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com**

**Address: 10292 Central Ave. #205, Montclair, CA, USA**