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**Product Data Sheet**

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Product Name: IFN a 2a Human, Plant  
Cat. No.: GP20384  
Batch No.: 1

**Product Data**

Purity	>98%	Source	Nicotiana Sp.Plant.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Leukocyte interferon; B cell interferon; Type I interferon; IFNA2; IFN-a 2a.		
Amino Acid Sequence	The sequence of the first twelve N-terminal amino acids was determined and was found to be Cys-Asp-Leu-Pro-Gln-Thr-His-Ser-Leu-Gly-Ser-Arg.		
Solubility	It is recommended to reconstitute the lyophilized Interferon-alpha 2a in sterile 18MΩ-cm H <sub>2</sub> O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized, containing 50% SDS.		

**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 was determined by a quantitative gene report bioassay using human Type I interferon-sensitive cells. Compared with bacterial derived recombinant IFN-a 2a, assayed in the same conditions, plant derived IFN-alpha 2a showed 6.1 6<sup>L</sup> 108 Units/mg in reference to a viral resistance assay using bovine kidney MDBK cells.

**Stability**

Lyophilized Interferon alpha 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.**

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### Background

Interferon Alpha Human 2a Recombinant produced in Plant is a single, glycosylated, polypeptide chain containing 165 amino acids and having a molecular mass of 19 kDa. The Interferon-a 2a contains affinity 6xHis tag on C-terminus. The IFN-A 2a is purified by proprietary chromatographic techniques.

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