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## Product Data Sheet

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Product Name: IFN a 1b Human  
Cat. No.: GP20382  
Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Amino Acid Sequence	The sequence of the first five N-terminal amino acids was determined and was found to be Cys-Asp-Leu-Pro-Glu.		
Solubility	It is recommended to reconstitute the lyophilized IFN alpha 1b 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 from a 0.2µm filtered solution (50ug/ml) in PBS, pH 7.4, containing 4% mannitol and 1% HSA.		

### Introduction

IFN-alpha 1b is produced by macrophages, IFN-alpha 1b has antiviral activities and stimulates the production of two enzymes: a 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 1 x 10<sup>8</sup> IU/ mg.

### Stability

Lyophilized Interferon alpha 1b although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution IFN-alpha 1b 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.

### Background

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

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Interferon-alpha 1b Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 166 amino acids and having a molecular mass of 19392 Dalton. The Interferon-alpha 1b gene was obtained from human leukocytes. The IFN-a 1b is purified by proprietary chromatographic techniques.

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