



## Product Datasheet

<b>Product Name</b>	Recombinant Human Interferon-Alpha 2b
<b>Cata No</b>	CB500107
<b>Source</b>	<i>Escherichia Coli.</i>
<b>Synonyms</b>	Interferon alpha 2b, IFNA, INFA2, MGC125764, MGC125765.

### Description

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

Interferon-a 2b Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 166 amino acids and having a molecular mass of 19400 Dalton.

The Interferon-alpha 2b gene was obtained from human leukocytes.

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

### Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

### Biological Activity

The specific activity as determined in a viral resistance assay using bovine kidney MDBK cells was found to be  $2.6 \times 10^8$  IU/ mg.

### Purity

Greater than 98.0% as determined by:

(a) Analysis by RP-HPLC.

(b) Analysis by SDS-PAGE.

### Formulation

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

### Reconstitution

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

### Stability

Lyophilized Interferon 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.**

### Sequence

The sequence of the first five N-terminal amino acids was determined and was found to be Met-Cys-Asp-Leu-Pro