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# California Bioscience

## Product Datasheet

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|---|---|
| **Product Name** | Interferon-Alpha 2b Human Recombinant, Yeast |
| **Cata No** | CB500362 |
| **Source** | *Saccharomyces cerevisiae* |
| **Synonyms** | Interferon alpha 2b, IFNA, INFA2, IFN-α 2b, 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-alpha 2b Human Recombinant produced in yeast is a single, glycosylated, polypeptide chain containing 165 amino acids and having a molecular mass of approximately 19 kDa.
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 was found to be no less than 3.0 x $10^8$ IU/mg

### Purity

Greater than 98.0% as determined by:
(a) Analysis by RP-HPLC.
(b) Analysis by SDS-PAGE.

### Formulation

Lyophilized from a 0.2μm filtered concentrated (1mg/ml) solution in PBS, pH-7.4.

### Stability

Lyophilized glycosilated IFN-a 2b although stable at room temperature for 3 weeks, should be stored desiccated below -18℃. Upon reconstitution IFN-alpha 2b should be stored at 4℃ between 2-7 days and for future use below -18℃.
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 Cys-Asp-Leu-Pro-Gln