

## PRODUCT DATA SHEET



Bioworld Technology, Inc.

### Recombinant Human Interferon- $\alpha$ 2b (rHuIFN- $\alpha$ 2b)

Catalog Number: PR1048

Source: *Saccharomyces cerevisiae*

Quantity: 20 $\mu$ g/100 $\mu$ g/1mg

#### Description

At least 23 different variants of IFN- $\alpha$  are known. The individual proteins have molecular masses between 19-26 kDa and consist of proteins with lengths of 156-166 and 172 amino acids. All IFN- $\alpha$  subtypes possess a common conserved sequence region between amino acid positions 115-151 while the amino-terminal ends are variable. Many IFN- $\alpha$  subtypes differ in their sequences at only one or two positions. Naturally occurring variants also include proteins truncated by 10 amino acids at the carboxy-terminal end.

#### Molecular Weight:

Approximately 19 kDa, a single non-glycosylated polypeptide chain containing 165 amino acids

#### Purity:

>98% by SDS-PAGE and HPLC analyses.

#### Biological Activity:

Fully biologically active when compared to standard. Fully biologically active when compared to standard. The specific activity as determined in a viral resistance assay was found to be no less than  $1.6 \times 10^8$  IU/ mg.

#### Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

#### Formulation:

Lyophilized from a 0.2 $\mu$ m filtered concentrated solution in PBS, pH 7.4.

#### AA Sequence:

C D L P Q T H S L G S R R T L M L L A Q M R R I S L F  
S C L K D R H D F G F P Q E E F G N Q F Q K A E T I P

V L H E M I Q Q I F N L F S T K D S S A A W D E T L L  
D K F Y T E L Y Q Q L N D L E A C V I Q G V G V T E T  
P L M K E D S I L A V R K Y F Q R I T L Y L K E K K Y  
S P C A W E V V R A E I M R S F S L S T N L Q E S L R  
S K E

#### Endotoxin:

Less than 1EU/ $\mu$ g of rHuIFN- $\alpha$ 2b as determined by LAL method.

#### Reconstitution:

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml. Stock solutions should be apportioned into working aliquots and stored at  $<-20^{\circ}\text{C}$ . Further dilutions should be made in appropriate buffered solutions

#### Storage:

This lyophilized preparation is stable for several weeks at  $2-8^{\circ}\text{C}$ , but should be kept at  $-20^{\circ}\text{C}$  for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at  $2-8^{\circ}\text{C}$ . For maximal stability, apportion the reconstituted preparation into working aliquots and store at  $-20^{\circ}\text{C}$  to  $-70^{\circ}\text{C}$ . Avoid repeated freeze/thaw cycles.

#### Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE. Made in China

MADE IN CHINA

Bioworld Technology, Inc.

1660 South Highway 100, Suite 500 St. Louis Park, MN

55416, USA.

Tel: 6123263284

Email: [info@bioworld.com](mailto:info@bioworld.com)

Fax: 6122933841

Bioworld technology, co, Ltd.

No 9, weidi road Qixia District Nanjing, 210046, P, R.China.

Tel: 0086-025-86371664

Email: [info@biogot.com](mailto:info@biogot.com)

Fax: 0086-025-86213570