

## IFNA1

### Recombinant Human IFN-alpha 1b

<b>Catalog No.</b>	CRI021A	<b>Quantity:</b>	2 µg
	CRI021B		10 µg
	CRI021C		1.0 mg

**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.

**Physical Appearance:** Sterile Filtered White lyophilized (freeze-dried) powder.

**Gene ID:** 3439

**Source:** *E. coli*

**Molecular Weight:** 19.5 kDa

**Formulation:** Lyophilized from a 0.2 µm filtered solution in PBS, pH 7.4, + 4% mannitol and 1% HSA.

**Purity:** >96% by SDS-PAGE and HPLC analyses.

**Endotoxin Level:** <1 EU/µg recombinant protein as determined by LAL method.

**Biological Activity:** The specific activity as determined in a viral resistance assay was found to be no less than  $1 \times 10^8$  IU/mg.

**Specific Activity:**  $1 \times 10^8$  IU/ mg

**Amino Acid Sequence:** MCDLPETHSL DNRRTLMLLA QMSRISPSSC LMDRHDFGFP QEEFDGNQFQ  
KAPAI SVLHE LIQQIFNLFT TKDSSAAWDE DLLDKFCTEL YQQLNDLEAC  
VMQEERVGET PLMNVDLSILA VKKYFRRITL YLTEKKYSPC AWEVVRAEIM  
RSLSLSTNLQ ERLRRKE

**Reconstitution:** **Centrifuge vial prior to opening.** 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°C. Further dilutions should be made in appropriate buffered solutions.

**Storage & Stability:** This lyophilized preparation is stable at 2-4°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-4°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C. **Avoid repeated freeze/thaw cycles.**

**NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.**