

## Recombinant Human Interferon- $\beta$ 1b (IFN- $\beta$ 1b)

**CATALOG #:** 4860-10 10  $\mu$ g  
4860-50 50  $\mu$ g  
4860-1000 1 mg

**LOT #:** \_\_\_\_\_

**SOURCE:** *E. coli*

**PURITY:** >98% by SDS-PAGE and HPLC analysis  
Endotoxin level is <0.1 ng per  $\mu$ g of IFN- $\beta$  1b.

**MOL. WEIGHT:** 18.5 kDa

**FORMULATION:** Lyophilized from 1 mg/ml solution containing 50 mg human albumin and 50 mg dextrose.

### RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. This solution can then be diluted into other aqueous buffers and stored at 4°C for 1 week or – 20°C for future use.

### STORAGE CONDITIONS:

The lyophilized IFN- $\beta$  1b is best-stored desiccated below 0°C. Reconstituted IFN- $\beta$  should be stored at working aliquots at -20°C.

### DESCRIPTION:

Recombinant Human IFN-beta produced from *E.Coli* is a single, non-glycosylated human Interferon beta-1b polypeptide chain containing 165 amino acids and having a molecular mass of 18.51 kDa. The Interferon beta gene was cloned from human fibroblasts. IFN-beta 1b is purified by proprietary chromatographic techniques.

### BIOLOGICAL ACTIVITY:

BioVision's Interferon beta-1b is fully biologically active when compared to standard. The specific activity as determined in a viral resistance assay (human "Wish" cell line and VSV virus or the monkey VERO cell line with EMCV virus) was found to be 32 x 10<sup>6</sup> IU/ mg.

FOR RESEARCH USE ONLY. Not to be used on humans

### RELATED PRODUCTS:

#### Apoptosis Detection Kits & Reagents

- Annexin V Kits & Bulk Reagents
- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptotic Cell Isolation Kit

#### Cell Fractionation System

- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

#### Cell Proliferation & Senescence

- Quick Cell Proliferation Assay Kit
- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
- LDH-Cytotoxicity Assay Kit
- Bioluminescence Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

#### Cell Damage & Repair

- HDAC Fluorometric & Colorimetric Assays & Drug Discovery Kits
- HAT Colorimetric Assay Kit & Reagents
- DNA Damage Quantification Kit
- Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits

#### Signal Transduction

- cAMP & cGMP Assay Kits
- Akt & JNK Activity Assay Kits
- Beta-Secretase Activity Assay Kit

#### Adipocyte & Lipid Transfer

- Recombinant Adiponectin, Survivin, & Leptin
- CETP Activity Assay & Drug Discovery Kits
- PLTP Activity Assay Kit
- Total Cholesterol Quantification Kit

#### Molecular Biology & Reporter Assays

- siRNA Vectors
- Cloning Insert Quick Screening Kit
- Mitochondrial & Genomic DNA Isolation Kits
- 5 Minutes DNA Ligation Kit
- 20 Minutes Gel Staining/Destaining Kit
- $\beta$  -Galactosidase Staining Kit & Luciferase Reporter Assay Kit

#### Growth Factors and Cytokines

Quality Antibodies for Apoptosis and Signal Transduction Molecules