

## Recombinant Rat Interleukin-13 (IL-13)

|                     |   |       |
|---------------------|---|-------|
| <b>CATALOG #:</b>   | 4166-10   | 10 µg |
|                     | 4166-1000   | 1 mg  |
| <b>LOT #:</b>       | _____   |       |
| <b>SOURCE:</b>      | <i>E. coli</i>  |       |
| <b>PURITY:</b>      | >95% by SDS-PAGE and HPLC analysis<br>Endotoxin level is <0.1 ng per µg of IL-13. |       |
| <b>MOL. WEIGHT:</b> | 12.7 kDa  |       |
| <b>FORMULATION:</b> | Sterile filtered and lyophilized with no additives                                |       |

### RECONSTITUTION:

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

### STORAGE CONDITIONS:

The lyophilized IL-13 is best-stored desiccated below 0°C. Reconstituted IL-13 should be stored at working aliquots at -20°C. For long term storage it is recommended to add a carrier protein (0.1% BSA).

### DESCRIPTION:

IL-13 is an immunoregulatory cytokine produced mainly by T helper 2 cells, but also by mast cells and NK cells. IL-13 is a unique cytokine having similar structural features and functional characteristics as IL-4, but only shares ~30% homolog with the IL-4 sequence. IL-13 inhibits IL-1β, IL-6, IL-8, and TNF-α resulting in anti-inflammatory effects on monocytes and macrophages. IL-13 also induces B cells to proliferate and modulating TH2 cell development. Recombinant rat IL-13 is an 11.9 kDa protein containing 109 amino acid residues.

### BIOLOGICAL ACTIVITY:

The ED<sub>50</sub> as determined by the dose-dependent stimulation of the proliferation of human TF-1 cells was typically 2-6 ng/m.

**NOTE:** For research use only! Not to be used in 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
- Apoptosis siRNA Vectors

#### 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 & Drug Discovery Kits
- 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
- β-Galactosidase Staining Kit & Luciferase Reporter Assay Kit

#### Growth Factors and Cytokines

#### Monoclonal and Polyclonal Antibodies