

## 32-20205: Recombinant Rat IL-1Beta (Discontinued)

**Reactivity :** Mouse, Rat  
**Alternative Name :** Catabolin, Lymphocyte-activating factor (LAF), Endogenous Pyrogen (EP), Leukocyte Endogenous Mediator (LEM), Mononuclear Cell Factor (MCF)

### Description

**Source:** *E.coli* IL-1b is a proinflammatory cytokine produced in a variety of cells, including monocytes, tissue macrophages, keratinocytes, and other epithelial cells. Both IL-1a and IL-1b bind to the same receptor and have similar, if not identical, biological properties. These cytokines have a broad range of activities, including the stimulation of thymocyte proliferation by inducing IL-2 release, B-cell maturation and proliferation, mitogenic FGF-like activity, and, the release of prostaglandin and collagenase from synovial cells. However, whereas IL-1b is a secreted cytokine, IL-1a is predominantly a cell-associated cytokine. Recombinant Rat IL-1b is a 17.4 kDa protein containing 153 amino acid residues.

### Product Info

**Amount :** 2 µg / 10 µg  
**Purification :** Purity:  $\geq 98\%$  by SDS-PAGE gel and HPLC analyses.  
**Content :** This recombinant protein is supplied in lyophilized form.  
**Amino Acid :** MVPIRQLHCR LRDEQQKCLV LSDPCELKAL HLNGQNISQQ VVFSMSFVQG ETSNDKIPVA LGLKGLNLYL SCVMKDGTPPT LQLESVDPKQ YPKKKMEKRF VFNKIEVKTK VEFESAQFPN WYISTSQAHEH RPVFLGNSNG RDIVDFTMEP VSS

### Application Note

The  $ED_{50}$  was determined by the dose-dependent stimulation of murine D10S cells is  $\leq 0.1$  ng/ml, corresponding to a specific activity of  $\geq 1 \times 10^7$  units/mg.