

## 32-20202: Animal-Free Recombinant Human IL-1Beta

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

### Description

#### Source:E.coli

IL-1Beta is a proinflammatory cytokine produced in a variety of cells, including monocytes, tissue macrophages, keratinocytes, and other epithelial cells. Both IL-1Alpha and IL-1Beta 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-1Beta is a secreted cytokine, IL-1Alpha is predominantly a cell-associated cytokine. Recombinant Human IL-1Beta is a 17.3 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 liquid form.

**Amino Acid :** APVRSLNCTL RDSQQKSLVM SGPYELKALH LQGQDMEQQV VFSMSFVOGE ESNDKIPVAL GLKEKNLYLS  
CVLKDDKPTL QLESVDPKNY PKKKMEKRFV FNKIEINNKL EFESAQFPNW YISTSQAENM PVFLGGTKGG  
QDITDFTMQF VSS

### Application Note

Determined by its ability to stimulate the proliferation of mouse D10S cells. The expected  $ED_{50}$  is  $\leq 0.001$  ng/ml, corresponding to a specific activity of  $\geq 1 \times 10^9$  units/mg.