

32-20204: Animal-Free Recombinant Murine IL-1Beta (Discontinued)

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 Murine IL-1Beta is a 17.5 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 : MVPIRQLHYR LRDEQKSLV LSDPYELKAL HLNGQINQQ VIFSMSFVQG EPSNDKIPVA LGLKGKNLYL
SCVMKDGTP T LQLESVDPKQ YPKKKMEKRF VFNKIEVKSK VEFESAEPN WYISTSQAEH KPVFLGNNSG
QDIIDFTMES VSS

Application Note

The ED_{50} as determined by the dose-dependent stimulation of murine D10S cells is ≤ 0.002 ng/ml, corresponding to a specific activity of $\geq 5 \times 10^8$ units/mg.