

32-20200: Recombinant Rat IL-1Alpha (Discontinued)

Reactivity : Mouse, Rat
Alternative Name : Hematopoietin-1, Lymphocyte-activating factor (LAF), Endogenous Pyrogen (EP), Leukocyte Endogenous Mediator (LEM), Mononuclear Cell Factor (MCF)

Description

Source: *E.coli* IL-1a is a non-secreted, 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-1a is a 17.7 kDa protein containing 155 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 : MAPHSFQNNL RYKLIRIVKQ EFIMNDSL NQ NIYVDM DRIH LKAASLNDLQ LEVKFD MYAY SSGGDSKY PV
TLKVSNTQLF VSAQGEDKPV LLKEIPETPK LITGSETDLI FFWEKINSKN YFTSAAFPEL LIATKEQSQV
HLARGLPSMI DFQIS

Application Note

The ED_{50} as determined by the dose-dependent proliferation of murine D10S cells is ≤ 0.005 ng/ml, corresponding to a specific activity of $\geq 2 \times 10^8$ units/mg.