

## 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 EFIMNDSLQ NIYVDMDRIH LKAASLNDLQ LEVKFDMYAY SSGGDSKYPV  
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  $\leq 0.005$  ng/ml, corresponding to a specific activity of  $\geq 2 \times 10^8$  units/mg.