

## 32-20197: Recombinant Human IL-1Alpha (Discontinued)

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

### Description

**Source:** *E.coli* IL-1Alpha is a non-secreted, 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-1Alpha is an 18.0 kDa protein containing 159 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 :** SAPFSFLSNV KYNFMRIKY EFILNDALNQ SIIRANDQYL TAAALHNLDE AVKFDMGAYK SSKDDAKITV  
ILRISKTKLY VTAQDEDPV LLKEMPEIPK TITGSETNLL FFWETHGTKN YFTSVAHPNL FIATKQDYWV  
CLAGGPPSIT DFQILENQA

### Application Note

The  $ED_{50}$  as determined by the dose-dependent stimulation of murine D10S cells is  $\leq 0.001$  ng/ml, corresponding to a specific activity of  $\geq 1 \times 10^9$  units/mg.