

## Recombinant Rat Interleukin-1a (rr IL-1a)

**Interleukin-1 alpha** is a proinflammatory cytokine produced by a wide variety of cell types, including macrophages, osteoblasts, monocytes and hepatocytes. Circulating levels of are normally low and only rise after stimulation by agents such as those produced by inflammation, infection or microbial endotoxins. IL-1 alpha possesses a wide variety of biological activities and exerts its effects by binding to specific cell surface receptors.

Recombinant rat IL-1 $\alpha$  is a non-glycosylated 17.7 kDa protein containing 156 amino acid residues.

**Synonyms :** Hematopoietin-1, Lymphocyte-activating factor (LAF), Endogenous Pyrogen (EP), Leukocyte Endogenous Mediator (LEM), Mononuclear Cell Factor (MCF)

**Source:** *Escherichia coli*

**AA Sequence:**

**Formulation:** Lyophilisate from a 0.22  $\mu$ m filtered solution in 25 mM sodium phosphate, 200mM NaCl pH8.2.

**Reconstitution:** Reconstitute in sterile endotoxin free water not less than 100  $\mu$ g/ml

**Stability:** The lyophilized protein is stable for at least 2 years at  $-20^{\circ}$ C. Reconstituted rr IL-1a is stable for at least 3 months when stored in concentrated working aliquots (100 ng/ $\mu$ l or higher) at  $-20^{\circ}$ C. Avoid repeated freeze/thaw cycles.

**Biological Activity:** The ED<sub>50</sub> as determined by the dose-dependant stimulation of murine D10S cells is < 0.005 ng/ml

**Purity:** 95% (verified by SDS-PAGE / silver stain)

**Endotoxicity:** The endotoxin level is less than 0.1 ng per  $\mu$ g (1EU/ $\mu$ g) determined by LAL method

**Order N<sup>o</sup>:** rr IL-1a+Size  
available sizes: 2  $\mu$ g, 10  $\mu$ g, 50  $\mu$ g

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