

DATASHEET

Version 20181206

IL-1 α , Rat**Cat. No.:** Z03115-1**Size:** 1.0 mg

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

Description:

Interleukin-1 alpha (IL-1 α), is 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 stimulation of thymocyte proliferation via IL-2 release, B-cell maturation and proliferation, mitogenic FGF-like activity, and the ability to stimulate 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.

Amino Acid Sequence:

00001 APHSFQNNLR YKLIRIVKQE FIMNDSLQN IYVMDRIHL
00041 KAASLNDLQL EVKFDMYAYS SGGDDSKYPV TLKVSNTQLF
00081 VSAQGEDKPV LLKEIPETPK LITGSETDLI FFW EKINSKN
00121 YFTSAAFPEL LIATKEQSQV HLARGLP SMI DFQIS

Source: CHO**Species:** Rat**Biological Activity:** ED₅₀ <5 pg/ml, measured in a proliferation assay using D10S cells.**Molecular Weight:** 17 22 kDa, observed by reducing SDS-PAGE.**Formulation:** Lyophilized after extensive dialysis against PBS.**Reconstitution:** Reconstituted in ddH₂O or PBS at 100 μ g/ml.**Purity:** > 95% as analyzed by SDS-PAGE.**Endotoxin Level:** < 0.2 EU/ μ g, determined by LAL method.**Storage:** Lyophilized recombinant Rat Interleukin-1 alpha remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Rat Interleukin-1 alpha should be stable up to 1 week at 4°C or up to 2 months at -20°C.