

IL-1 α , Rat

Cat. No.: Z03115-50

Size: 50.0 ug

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:

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00001 APHSFQNNLR YKLIRIVKQE FIMNDSLQNI IYVMDRIHL
00041 KAASLNDLQL EVKFDMYAYS SGGDDSKYPV TLKVSNTQLF
00081 VSAQGEDKPV LLKEIPETPK LITGSETDLI FFWEKINSKN
00121 YFTSAAFPEL LIATKEQSQV HLARGLPSMI DFQIS
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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.