

## Overview

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| <b>Synonyms</b>            | Hematopoietin-1, Lymphocyte-activating factor (LAF), Endogenous Pyrogen (EP), Leukocyte Endogenous Mediator (LEM), Mononuclear Cell Factor (MCF)   |
| <b>Description</b>         | <b>Interleukin-1 alpha (IL-1<math>\alpha</math>)</b> , is produced in a variety of cells including monocytes, tissue macrophages, keratinocytes and other epithelial cells. Both IL-1 $\alpha$ and IL-1 $\beta$ 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-1 $\beta$ is a secreted cytokine, IL-1 $\alpha$ is predominantly a cell-associated cytokine. |
| <b>Accession No</b>        | P16598.1   |
| <b>Species</b>             | Rat  |
| <b>Source</b>              | CHO  |
| <b>Biological Activity</b> | ED <sub>50</sub> <5 pg/ml, measured in a proliferation assay using D10S cells.   |
| <b>Sequence</b>            | APHSFQNNLR YKLIRIVKQE FIMNDSLQN IYVDMRIHL<br>KAASLNDLQL EVKFDYAYS SGGDDSKYPV TLKVSNTQLF<br>VSAQGEDKPV LLKEIPETPK LITGSETDLI FFWEKINSKN<br>YFTSAAFPEL LIATKEQSQV HLARGLPSMI DFQIS   |

## Properties

|                                  |  |
|----------------------------------|--|
| <b>Measured Molecular Weight</b> | 17~22 kDa, observed by reducing SDS-PAGE.  |
| <b>Purity</b>                    | > 95% as analyzed by SDS-PAGE.   |
| <b>Formulation</b>               | Lyophilized after extensive dialysis against PBS.  |
| <b>Reconstitution</b>            | Reconstituted in ddH <sub>2</sub> O or PBS at 100 $\mu$ g/ml.  |
| <b>Endotoxin Level</b>           | < 0.2 EU/ $\mu$ g, determined by LAL method.   |
| <b>Storage</b>                   | Lyophilized recombinant <b>Rat Interleukin-1 alpha</b> 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. |
| <b>Note</b>                      | For research use only  |

India Contact:

**Life Technologies (India) Pvt. Ltd.**

306, Aggarwal City Mall, Opposite M2K Pitampura,  
Delhi – 110034 (INDIA).

Mobile: +91-9810521400, Ph: +91-11-42208000

Email: [customerservice@lifetechindia.com](mailto:customerservice@lifetechindia.com)

Web: [www.lifetechindia.com](http://www.lifetechindia.com)