

## 32-1358: IL 1 alpha Recombinant Protein

**Alternative Name** Hematopoietin-1,Lymphocyte-activating factor (LAF),Endogenous Pyrogen (EP),Leukocyte Endogenous Mediator (LEM),Mononuclear Cell Factor (MCF),IL-1 alpha,IL1,IL-1A,IL1F1.

### Description

Source : Escherichia Coli. Interleukin-1 alpha Human Recombinant produced in E.Coli is single, a non-glycosylated, Polypeptide chain containing 159 amino acids and having a molecular mass of 18022 Dalton. The IL-1A is purified by proprietary chromatographic techniques. IL-1 alpha is produced by activated macrophages, stimulates thymocyte proliferation by inducing il-2 release, b-cell maturation and proliferation, and fibroblast growth factor activity. IL1A proteins are involved in the inflammatory response, being identified as endogenous pyrogens, and are reported to stimulate the release of prostaglandin and collagenase from synovial cells.

### Product Info

**Amount :** 10 µg  
**Purification :** Greater than 97.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.  
**Content :** The protein was lyophilized from a concentrated (1mg/ml) sterile solution containing 25mM Tris-HCl, pH 8.  
**Storage condition :** Lyophilized Interleukin-1 alpha although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL-1a should be stored at 4°C between 2-7 days and for future use below -18°C.Please prevent freeze-thaw cycles.  
**Amino Acid :** SAPFSFLSNVKYNFMRIIKYEFILNDALNQSIIRANDQYLTAALHNLDEAVKFDMGAYKSSKDDAKITVILRISKTLQYVTAQDEDQPVLLKEMPEIPKTITGSETNLLFFWETHGTKNYFTSVAHPNLFIA TKQDYWVCLAGGPPSITDFQILENQA.

### Application Note

It is recommended to reconstitute the lyophilized Interleukin 1 alpha in sterile 18MΩ-cm H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions. The ED50 as determined by the dose-dependant stimulation of murine D10S cells is < 0.001 ng/ml, corresponding to a Specific Activity of 1 x 10<sup>9</sup> IU/mg.

