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## Product Data Sheet

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Product Name: IL 1 alpha Human

Cat. No.: GP20439

Batch No.: 1

**Product Data**

Purity &gt;98% Source Escherichia Coli.

Physical Appearance solid Shipping Condition Shipped at Room temp.

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

Amino Acid Sequence SAPFSFLSNVKYNFMRIIKYEFILNDALNQSIIRANDQYLTAALHNLDEAV  
KFDMGAYKSSKDDAKITVILRISKTKQLYVTAQDEDQPVLLKEMPEIPKTITG  
SETNLLFFWETHGKKNYFTSVAHPNLFIATKQDYWVCLAGGPPSITDFQILE NQA.Solubility 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.

Formulation The protein was lyophilized from a concentrated (1mg/ml) sterile solution containing 25mM Tris-HCl, pH 8.

**Introduction**

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.

**Biological Activity**

The ED<sub>50</sub> 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.

**Stability**

Lyophilized Interleukin-1 alpha although stable at room temperature for 3 weeks, should

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be stored desiccated below  $-18^{\circ}\text{C}$  . Upon reconstitution IL-1a should be stored at  $4^{\circ}\text{C}$  between 2-7 days and for future use below  $-18^{\circ}\text{C}$  .Please prevent freeze-thaw cycles.

### Background

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.

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