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## Product Data Sheet

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Product Name: IL 1 Alpha Porcine  
Cat. No.: GP20447  
Batch No.: 1

### Product Data

Purity	>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	The sequence of the first five N-terminal amino acids was determined and was found to be Ser-Ala-Thr-Tyr-Ser.		
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 no additives.		

### Introduction

Interleukin-1 alpha is a proinflammatory cytokine produced by a wide variety of cell types, including macrophages, osteoblasts, monocytes and hepatocytes. Circulating levels of are normally low and only rise after stimulation by agents such as those produced by inflammation, infection or microbial endotoxins. IL-1 alpha possesses a wide variety of biological activities and exerts its effects by binding to specific cell surface receptors.

### Biological Activity

The ED<sub>50</sub> as determined by the dose-dependant stimulation of D10S cells is < 0.03 ng/ml.

### 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 IL1A should be stored at  $4^{\circ}\text{C}$  between 2-7 days and for future use below  $-18^{\circ}\text{C}$ . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Background

Interleukin-1A Porice Recombinant produced in E.Coli is single, a non-glycosylated, Polypeptide chain containing 158 amino acids and having a molecular mass of 18076 Dalton. The IL-1A is purified by proprietary chromatographic techniques.

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