
Product Data Sheet

Product Name: IL 1 alpha Mouse

Cat. No.: GP20441

Batch No.: 1

Product Data

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|---------------------|--|--------------------|-----------------------|
| 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 | SAPYTYQSDL RYKLMKLVLRQ KFVMNDSL NQ TIYQDV DKHY LSTTWLNDLQ QEVKFD MYAY SSGGDD SKYP VTLKISDSQL FVSAQGEDQP VLLKELPETP KLITGSETDL IFFWKSINSK NYFTSAAYPE LFIATKEQSR VHLARGLP SM TDFQIS. | | |
| Solubility | It is recommended to reconstitute the lyophilized Interleukin 1a in sterile 18MΩ-cm H ₂ 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 1xPBS, pH=7.4. | | |

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 ED₅₀ as determined by the dose-dependant stimulation of murine D10S cells is < 0.002 ng/ml.

Caution: Product has not been fully validated for medical applications. For research use only.

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Stability

Lyophilized Interleukin-1a although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution IL1A should be stored at 4°C between 2-7 days and for future use below -18°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 Mouse Recombinant produced in E.Coli is single, a non-glycosylated, Polypeptide chain containing 156 amino acids and having a molecular mass of 17.9 kDa. The IL-1A is purified by proprietary chromatographic techniques.

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