

Product Data Sheet

Product Name: IL 1 beta Rat
 Cat. No.: GP20454
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.

Synonyms Catabolin; Lymphocyte-activating factor (LAF); Endogenous Pyrogen (EP); Leukocyte Endogenous Mediator (LEM); Mononuclear Cell

Amino Acid Sequence MVPIRQLHCRLRDEQKCLVLSDPCELKALHLNGQNISQVVFMSFVQGETSNDKIPVALGLKGLNLYLSCVMKDGTPTLQLESVDPKQYPKKKMEKR

Solubility It is recommended to reconstitute the lyophilized Interleukin 1b in sterile 18MQ-cm H2O not less than 100µg/ml, which can then be used for cell culture.
 Formulation The protein was lyophilized from 0.2um filtered concentrated solution in PBS, pH 7.4.

Introduction

Interleukin-1b is produced by activated macrophages, IL-1B stimulates thymocyte proliferation by inducing il-2 release, b-cell maturation and proliferation, and fibroblast growth factor activity. IL1B proteins are involved in the inflammatory response, being identified as endogenous pyrogens, and are reported to stimulate the release of prostaglandin from synovial cells.

Biological Activity

The ED50 was found to be less than 0.1ng/ml, determined by the dose dependent proliferation of mouse D10S cells, corresponding to a specific activity of 10,000,000 units/mg.

Stability

Lyophilized Interleukin-1b although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution IL1b 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-1b Rat Recombinant produced in E.Coli is a non-glycosylated, Polypeptide chain containing 153 amino acids and having a molecular mass of 17.3 kDa.The IL-1b is purified by proprietary chromatographic techniques.

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

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