
Product Data Sheet

Product Name: IL 1 beta Human, HEK
 Cat. No.: GP20451
 Batch No.: 1

Product Data

Purity	>98%	Source	HEK.
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 APVRSLNCTLRDSQKSLVMSGPYELKALHLQGDMEQVVFSMSFVQGEESNDKIPVALGLKEKNLYLSCVLKDDKPTLQLESVDPKNYPKKKMEKRI

Solubility It is recommended to reconstitute the lyophilized IL-1b in sterile PBS containing 0.1% endotoxin-free recombinant HSA.

Formulation The IL-1 beta was lyophilized from 1mg/ml in 1xPBS.

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 and collagenase from synovial cells.

Biological Activity

The specific activity was determined by the dose-dependent stimulation of the proliferation of mouse D10S cells and is typically 0.02-0.08ng/ml.

Stability

Lyophilized IL-1 beta although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution IL-1 beta 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-1 beta Human Recombinant produced in HEK cells is a glycosylated monomer, having a molecular weight range of 18-25kDa due to glycosylation.The IL-1 beta is purified by proprietary chromatographic techniques.

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

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