
Product Data Sheet

Product Name: IL 1 beta Human

Cat. No.: GP20449

Batch No.: 1

Product Data

Purity	Greater than \geq 95.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.	Source	Escherichia Coli.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.	Shipping Condition	Shipped at Room temp.
Synonyms	Catabolin; Lymphocyte-activating factor (LAF); Endogenous Pyrogen (EP); Leukocyte Endogenous Mediator (LEM); Mononuclear Cell Factor (MCF); IL1F2; IL-1 beta.		
Amino Acid Sequence	The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Pro-Val-Arg-Ser.		
Solubility	It is recommended to reconstitute the lyophilized Interleukin-1b in sterile 18M Ω -cm H ₂ O not less than 100 μ g/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The protein was lyophilized from a concentrated (1mg/ml) sterile solution containing 50mM Phosphate buffer pH=7.1 and 150mM NaCl.		

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 as determined in the test of augmentation of lymphocyte proliferation assay using mouse thymus was found to be 200,000,000 IU/mg.

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

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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-1 beta Human Recombinant produced in E.Coli is a non-glycosylated, Polypeptide chain containing 153 amino acids and having a molecular mass of 17000 Dalton. The IL-1b is purified by proprietary chromatographic techniques.

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