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## Product Data Sheet

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Product Name: IL 1 beta Mouse

Cat. No.: GP20452

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 Factor (MCF); IL1F2; IL-1 beta.		
Amino Acid Sequence	MVPIRQLHYR LRDEQQKSLV LSDPYELKAL HLNGQNINQQ VIFSMSFVQGEPSNDKIPVA LGLKGNLYL SCVMKDGTPPT LQLESVDPKQ YPKKKMEKRFVFNKIEVKSK VEFESAEPN WYISTSQAEH KPVFLGNNSG QDIIDFTMES VSS.		
Solubility	It is recommended to reconstitute the lyophilized Interleukin-1b 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	Mouse IL-1b was lyophilized from a sterile filtered aqueous solution in 10mM sodium phosphate, pH 7.5.		

**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 activity as determined by the dose-dependent proliferation of mouse D10S cells is 0.9-1.3pg/ml, corresponding to a Specific Activity of 1.1 x 10<sup>6</sup> Units/mg.

**Stability**

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

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Lyophilized Interleukin-1b although stable at room temperature for 3 weeks, should be stored desiccated below  $-18^{\circ}\text{C}$ . Upon reconstitution IL1b 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-1 beta Mouse Recombinant produced in E.Coli is a non-glycosylated, Polypeptide chain containing 153 amino acids and having a molecular mass of 17500 Dalton. The IL-1b is purified by proprietary chromatographic techniques.

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