



## Product Datasheet

<b>Product Name</b>	Recombinant Mouse Interleukin-1 beta
<b>Cata No</b>	CB500175
<b>Source</b>	Escherichia Coli.
<b>Synonyms</b>	Catabolin, Lymphocyte-activating factor (LAF), Endogenous Pyrogen (EP), Leukocyte Endogenous Mediator (LEM), Mononuclear Cell Factor (MCF), IL1F2, IL-1 beta.

### Description

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.

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.

### Purity

Greater than 98.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

### Specific Activity

The ED50 as determined by the dose-dependant stimulation of murine D10S cells is < 0.002 ng/ml, corresponding to a Specific Activity of  $5 \times 10^9$  IU/mg.

### Storage

Lyophilized Fibroblast Growth Factor-2 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution FGF-b 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.

### Formulation

The protein was lyophilized with no additives. It is recommended to reconstitute the lyophilized Interleukin-1b in sterile 18MΩ-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

**\* For Non-Clinical Research Use Only \***