



## Interleukin-1 beta, His Tag, mouse recombinant (rmlL-1-His)

**Catalog No:** 99851  
**Lot No:** XXXXX  
**Source:** *E. coli*  
**Synonyms:** Catabolin, Lymphocyte-activating factor (LAF), Endogenous Pyrogen (EP), Leukocyte Endogenous Mediator (LEM), Mononuclear Cell Factor (MCF), IL1F2, IL-1 beta, Interleukin-1 beta

### Background

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. IL-1b is an inflammatory cytokine which modulates angiogenesis by interacting directly with vascular endothelial cells & increasing the production of proangiogenic factors through paracrine control. IL-1 beta stimulates endothelial cell migration and proliferation, adhesion-molecule expression, inflammatory mediator production, and leukocyte recruitment. IL1B is essential for tumor growth, metastasis, and angiogenesis in quite a few animal models.

### Description

Interleukin-1 beta mouse recombinant produced in *E. coli* is a non-glycosylated, polypeptide chain containing 189 amino acids and having a molecular mass of 21 kDa. IL-1b is fused to His Tag and purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile filtered colorless solution.

### Formulation

The IL-1B protein contains 20 mM Tris pH 8 and 10% glycerol.

### Stability

IL-1b, although stable at 4°C for 2 weeks, should be stored desiccated 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.

### Purity

Greater than 90.0% as determined by SDS-PAGE.

### Amino Acid Sequence

MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMPVI RQLHYRLRDE QQKSLVLSDP YELKALHLNG QNINQQVIF'S  
MSFVQGEPSN DKIPVALGLK GKNLYLSCVM KDGTPTLQLE SVDPKQYPKK KMEKRFVFNK IEVKSKEFE SAEFPNWWYIS  
TSQAEHKPVF LGNNSGQDII DFTMESVSS

### Usage

**This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.**

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