

## IL 1 beta Rat

**Description:** Interleukin-1b Rat Recombinant produced in E.Coli is a non-glycosylated, Polypeptide chain containing 153 amino acids and having a molecular mass of 17.3 kDa. The IL-1b is purified by proprietary chromatographic techniques.

**Catalog #:** CYPs-401

For research use only.

**Synonyms:** Catabolin, Lymphocyte-activating factor (LAF), Endogenous Pyrogen (EP), Leukocyte Endogenous Mediator (LEM), Mononuclear Cell Factor (MCF), IL1F2, IL-1 beta.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered White lyophilized (freeze-dried) powder.

**Amino Acid Sequence:**

MVPIRQLHCRLRDEQKCLVLSDPCELKALHLNGQNISQQVVFMSFVQGETSNDKIPVALGLKG  
LNLVLSVMDKGTPTLQLESVDPKQYPKKMEKRFVFNKIEVKTKVEFESAQFPNWIYSTSQA  
EHRPVFLGNSNGRDIVDFTEPVS.

**Purity:** Greater than 97.0% as determined by SDS-PAGE.

**Formulation:**

The protein was lyophilized from 0.2um filtered concentrated solution in PBS, pH 7.4.

**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.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Solubility:**

It is recommended to reconstitute the lyophilized Interleukin 1b in sterile 18M-cm H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

**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 ED<sub>50</sub> was found to be less than 0.1ng/ml, determined by the dose dependent proliferation of mouse D10S cells, corresponding to a specific activity of 10,000,000 units/mg.

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