

## IL 1 beta Human, HEK

**Description:** Interleukin-1 beta Human Recombinant produced in HEK cells is a glycosylated monomer, having a molecular weight range of 18-25kDa due to glycosylation. The IL-1 beta is purified by proprietary chromatographic techniques.

**Catalog #:** CYP5-101

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

For research use only.

**Source:** HEK.

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

**Purity:** Greater than 95% as observed by SDS-PAGE.

**Formulation:**

The IL-1 beta was lyophilized from 1mg/ml in 1xPBS.

**Stability:**

Lyophilized IL-1 beta although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL-1 beta 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:**

NeoBiolabs 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 IL-1b in sterile PBS containing 0.1% endotoxin-free recombinant HSA.

**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 was determined by the dose-dependent stimulation of the proliferation of mouse D10S cells and is typically 0.02-0.08ng/ml.

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