IL-1beta Rat E. coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Rat
Other names: Catabolin, Lymphocyte-activating factor (LAF), Endogenous Pyrogen (EP), Leukocyte Endogenous Mediator (LEM), Mononuclear Cell Factor (MCF), Interleukin-1beta

Cat. No.:

RBG30001B002	(2 µg)
RBG30001B010	(10 µg)
RBG30001B100	(100 µg)

Description

IL-1b is a proinflammatory cytokine produced in a variety of cells, including monocytes, tissue macrophages, keratinocytes, and other epithelial cells. Both IL-1a and IL-1b bind to the same receptor and have similar, if not identical, biological properties. These cytokines have a broad range of activities, including the stimulation of thymocyte proliferation by inducing IL-2 release, B-cell maturation and proliferation, mitogenic FGF-like activity, and, the release of prostaglandin and collagenase from synovial cells. However, whereas IL-1b is a secreted cytokine, IL-1a is predominantly a cell-associated cytokine. Recombinant Rat IL-1b is a 17.4 kDa protein containing 153 amino acid residues.

Research topic

Cardiovascular disease, Coronary artery disease, Cytokines and chemokines and related molecules, Diabetology - Other Relevant Products, Immune Response, Infection and Inflammation, Neural tissue markers, Oncology, Transplantation

Amino Acid Sequence

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MVPIRQLHCR LRDEQQKCLV LSDPCELKAL HLNGQNISQQ VVFSMSFVQG ETSNDKIPVA LGLKGLNLYL SCVMKDGTPT
LQLESVDPKQ YPKKKMEKRF VFNKIEVKTK VEFESAQFPN WYISTSQAEH RPVFLGNSNG RDIVDFTMEP VSS
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Source

E. coli

Purity

98%

Biological Activity

The ED_{50} was determined by the dose-dependent stimulation of murine D10S cells is 0.1 ng/ml, corresponding to a specific activity of 1×10^7 units/mg.

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Storage, Stability/Shelf Life

-20°C

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