



Interleukin-1 beta, rat recombinant (rrIL-1-beta)

Catalog No: 87329
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

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.

Description

Interleukin-1 beta 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. IL-1b is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

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

Solubility

It is recommended to reconstitute the lyophilized Interleukin-1b in sterile 18 MΩ-cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

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.

Purity

Greater than 97.0% as determined by SDS-PAGE.

Amino Acid Sequence

MVPIRQLHCR LRDEQQKCLV LSDPCELKAL HLNGQNISQQ VVFSMSFVQG ETSNDKIPVA LGLKGLNLYL SCVMKDGTPPT
LQLESVDPKQ YPKKKMEKRF VFNKIEVTK VEFESAQFPN WYISTSQAEH RPVFLGNSNG RDIVDFTMEP VSS

Activity

The ED50 was found to be less than 0.1 ng/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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