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IL 1 beta Mouse

Description: Interleukin-1 beta Mouse Recombinant produced in E.Coli is a non-glycosylated, Polypeptide chain containing 153 amino acids and having a molecular mass of 17500 Dalton. The IL-1b is purified by proprietary chromatographic techniques.

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:MVPIRQLHYR LRDEQQKSLV LSDPYELKAL HLNGQNINQQ VIFSMSFVQGEPSNDKIPVA LGLKGKNLYL SCVMKDGTPT LQLESVDPKQ YPKKKMEKRFVFNKIEVKSK VEFESAEFPN WYISTSQAEH KPVFLGNNSG QDIIDFTMES VSS.

Purity: Greater than 98.0% as determined by(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

Formulation:
Mouse IL-1b was lyophilized from a 0.2

Stability:
Lyophilized Interleukin-1b althoμgh 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 drμgs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:
It is recommended to reconstitute the lyophilized Interleukin-1b in sterile 18M-cm H2O 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 ED50 as determined by the dose-dependant stimulation of mouse D10S cells was found to be less than 2.0 pg/ml, corresponding to a Specific Activity of 5.0 x 108 IU/mg.

References:
Title:VAMP-8 segregates mast cellpreformed mediator exocytosis from cytokine trafficking pathways.Publication: Published online before print January 18, 2008, doi:

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10.1182/blood-2007-07-103309 Blood April 1, 2008 vol. 111 no. 7 3665-3674
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