

IL 1 beta Human

Description: Interleukin-1 beta Human Recombinant produced in E.Coli is a non-glycosylated, Polypeptide chain containing 153 amino acids and having a molecular mass of 17000 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: The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Pro-Val-Arg-Ser.

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

Formulation:

The protein was lyophilized from a concentrated (1mg/ml) sterile solution containing 50mM Phosphate buffer pH=7.1 and 150mM NaCl.

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 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 specific activity as determined in the test of augmentation of lymphocyte proliferation assay using mouse thymus was found to be 200,000,000 IU/mg.

References:

1. Title: Proinflammatory Cytokine IL-1b Stimulates IL-8 Synthesis in Mast Cells via a Leukotriene B4 Receptor 2-Linked Pathway, Contributing to Angiogenesis. Publication: Published online before

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print March 1, 2010, doi: 10.4049/jimmunol.0901735 The Journal of Immunology April 1, 2010

vol. 184 no. 7 3946-3954. Link: <http://www.jimmunol.org/content/184/7/3946.full> Application: Level

of IL-8 mRNA was dramatically enhanced by IL-1b, HMC-1 cells were stimulated with IL-1b.

2. Title: Contribution of IL-1 to resistance to Streptococcus pneumoniae infection. Publication: Int.

Immunol. (2008) 20 (9): 1139-1146. doi: 10.1093/intimm/dxn071 First published online: July 1,

2008 Link: <http://intimm.oxfordjournals.org/content/20/9/1139.full>



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