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Interleukin-1 beta Rat Recombinant CYTOKINE

Catalog Number: PRP-301
Quantity: 2 micrograms, 10 micrograms
Format: Sterile-filtered white lyophilized (freeze-dried) powder
Host: *E. coli*

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. IL-1B 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.

Specificity and Preparation:

Interleukin-1b rat recombinant produced in *E. coli* is a non-glycosylated, polypeptide chain containing 153 amino acids and having a molecular mass of 17415.82 Dalton. The IL-1b is purified by proprietary chromatographic techniques.

Usage and Storage:

It is recommended to reconstitute the lyophilized Interleukin 1b in sterile 18M Ω -cm H₂O at not less than 100 μ g/ml, which can then be further diluted to other aqueous solutions. Gently spin down material before use; 5-10 seconds in a microfuge should be adequate. 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). Avoid repeated freezing and thawing.

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