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Recombinant Human Interleukin-1 β

Description: 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. Human Recombinant produced in E.Coli is a non-glycosylated, Interleukin-1 beta Polypeptide chain containing 153 amino acids and having a molecular mass of 17000 Dalton.

Source:	E. coli
Molecular Weight:	17 kDa
Purity:	> 98% by RP-HPLC, Anion-exchange FPLC, Silverstain
Endotoxin level:	< 0.1 ng per μ g (IEU/ μ g) of rh IL-1 β
Stabilizer:	none
Buffer:	50 mM phosphate buffer, 150 mM NaCl, pH 7.1
Formulation:	lyophilized

Biological Activity: The specific activity as determined in a test of augmentation of lymphocyte proliferation assay using mouse thymus was found to be 2.0×10^8 IU/mg.

Reconstitution: The lyophilized rh IL-1 β is soluble in water and most aqueous buffers. The lyophilized powder can be reconstituted in water to a concentration of 0.1 mg/ml. This solution can be diluted into other buffered solutions or stored at -20°C for future use.

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). **Avoid repeated freeze-thaw cycles.**

Usage: Human IL-1 β is offered for research use. Not for drug use. **Not for human use.**

Catalogue number: 400-002-DC

Size: 50 μ g

Range: 0.1-10.0 ng/ml

**** please note: always centrifuge vials before opening ****