



Product Datasheet

Product Name	Interleukin-1 beta Human Recombinant
Cata No	CB500016
Source	Escherichia Coli.
Synonyms Name	Catabolin, Lymphocyte-activating factor (LAF), Endogenous Pyrogen (EP), Leukocyte Endogenous Mediator (LEM), Mononuclear Cell Factor (MCF), IL1F2, IL-1 beta.

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 Interleukin-1 beta 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.

Purity

Greater than 98.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Analysis by reducing and non-reducing SDS-PAGE Silver Stained gel.

Specific Activity

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

Storage

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.

Formulation

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

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