

DATASHEET

Name	IL-1 B, REC.MOUSE		
Product	Interleukin-1 beta, Rec. Mouse	Article-No.	40124
Formulation	White powder - lyophilised with no additives	Storage	Freezer at -20°C Prevent freeze-thaw cycles

Introduction:

Interleukin-1 beta 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.

Description:

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

Source: *Escherichia Coli*.

Purity: > 98.0% (per RP-HPLC & SDS-PAGE)

Solubility:

It is recommended to reconstitute the lyophilised rmlL-1b in sterile 18MΩ-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Stability:

Lyophilised rmlL-1b, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution rmlL-1b 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).

Amino acid sequence:

The sequence of the first five N-terminal amino acids was determined and was found to be Met-Val-Pro-Ile-Arg.

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Biological Activity:

The ED₅₀ as determined by the dose-dependent stimulation of mouse D10S cells is < 0.002 ng/ml, corresponding to a Specific Activity of 5 x10⁹ IU/mg.

Usage:

Our products are intended for lab research only. Not for human, animal or diagnostic use.