

DATASHEET

Name	IL-1 B, REC.PORCINE		
Product	Interleukin-1 beta, Rec. Porcine	Article-No.	40126
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 Porcine Interleukin-1 beta produced in *Escherichia coli* is a non-glycosylated, Polypeptide chain containing 154 amino acids and having a molecular mass of 17690 Dalton. The rpIL-1b is purified by proprietary chromatographic techniques.

Source: *Escherichia coli*

Purity: > 95.0% (per RP-HPLC & SDS-PAGE)

Solubility:

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

Stability:

Lyophilised rpIL-1b, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution rpIL-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-Ala-Asn-Val-Gln.

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Biological Activity:

The ED₅₀ as determined by the dose-dependent stimulation of mouse D10S cells is <10ng/mL.

Protein content:

Protein quantification was carried out by two independent methods:

1. UV spectroscopy at 280nm using the absorbency value of 0.69 as the extinction coefficient for a 0.1% (1mg/mL) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics).
2. Analysis by RP-HPLC, using a standard solution of Interleukin-1 beta as a reference standard.

Usage:

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