## PRODUCT DATA SHEET



Bioworld Technology,Inc.

# Recombinant IL-1β, Porcine

Catalog Number: BK0096-10µg Source: Escherichia coli. Quantity: 10µg

## **Description:**

Interleukin-1 beta (rpIL-1β) is a proinflammatory cytokine produced in a variety of cells including monocytes, tissue macrophages, keratinocytes and other epithelial cells. IL-1 $\alpha$  and IL-1 $\beta$  are structurally related polypeptides that share approximately 27% amino acid (aa) identity in porcine. While IL-1 $\alpha$  and IL-1 $\beta$  are regulated independently, they bind to the same receptor and exert identical biological effects. IL-1ß stimulates thymocyte proliferation by inducing il-2 release, b-cell maturation and proliferation, and fibroblast growth factor activity.Recombinant Porcine IL-1β produced in E.coli is a single non-glycosylated polypeptide chain containing 154 amino acids. A fully biologically active molecule, rpIL-1β has a molecular mass of 17.7 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

### **Molecular Weight:**

17.7 kDa, observed by reducing SDS-PAGE.

## **Purity:**

> 95% as analyzed by SDS-PAGE.

## **Biological Activity:**

ED50 < 1ng/ml, measured by the dose-dependent stimulation of mouse D10S cells, corresponding to a specific activity of  $1.0 \times 10^6$  IU/mg.

## **Physical Appearance:**

Sterile Filtered White lyophilized (freeze-dried) pow-

der.

#### **Formulation:**

Lyophilized after extensive dialysis against PBS.

### **AA Sequence:**

MANVQSMECKLQDKDHKSLVLAGPHM-LKALHLLTGDLKREVVFCMSFVQGDDSNN-KIPVTLGIKGKNLYLSCVMKDNTPTLQLE-DIDPKRYPKRDMEKRFVFYKTEIKNRVEFESA-LYPNWYISTSQAEQKPVFLGNSKGRQDITDFT-MEVLSP

### **Endotoxin:**

< 0.2 EU/µg, determined by LAL method.

### **Reconstitution:**

Reconstituted in ddH2O or PBS at 100 µg/ml.

## **Storage:**

Lyophilized recombinant Porcine IL-1 $\beta$ , remains stable up to 6 months at -80  $\mathbb C$  from date of receipt. Upon reconstitution, Porcine IL-1 $\beta$  should be stable up to 1 week at 4  $\mathbb C$  or up to 3 months at -20  $\mathbb C$ .

### **Usage:**

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. For research use only.

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