

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant IL-1 β , Porcine

Catalog Number: BK0096-50 μ g

Source: Escherichia coli.

Quantity: 50 μ g

Description:

Interleukin-1 beta (rpIL-1 β) is a proinflammatory cytokine produced in a variety of cells including monocytes, tissue macrophages, keratinocytes and other epithelial cells. IL-1 α and IL-1 β are structurally related polypeptides that share approximately 27% amino acid (aa) identity in porcine. While IL-1 α and IL-1 β are regulated independently, they bind to the same receptor and exert identical biological effects. IL-1 β stimulates thymocyte proliferation by inducing il-2 release, b-cell maturation and proliferation, and fibroblast growth factor activity. Recombinant Porcine IL-1 β produced in E.coli is a single non-glycosylated polypeptide chain containing 154 amino acids. A fully biologically active molecule, rpIL-1 β 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 1.0×10^6 IU/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) pow-

der.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

MANVQSMECKLQDKDKHKS LVLGPHM-
LKALHLLTGDLKREVVFCMSFVQGDDSN-
KIPVTLGIKGNLYLSCVMKDNTPTLQLE-
DIDPKRYPKRDMEKRFVFKTEIKNRVEFESA-
LYPNWYISTSQAEQKPVFLGNSKGRQDITDFT-
MEVLSP

Endotoxin:

< 0.2 EU/ μ g, determined by LAL method.

Reconstitution:

Reconstituted in ddH₂O or PBS at 100 μ g/ml.

Storage:

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

Usage:

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