

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant IL-1 β , Human(CHO-expressed)

Catalog Number: BK0238-1mg

Source: CHO

Quantity: 1mg

Description:

Interleukin 1 beta is a proinflammatory cytokine produced in a variety of cells including monocytes, tissue macrophages, keratinocytes and other epithelial cells. Both IL-1 alpha and IL-1 beta binds to the same receptor and has similar if not identical biological properties. These cytokines have a broad range of activities including, stimulation of thymocyte proliferation, by inducing IL-2 release, B-cell maturation and proliferation, mitogenic FGF-like activity and the ability to stimulate the release of prostaglandin and collagenase from synovial cells. However, whereas IL-1 beta is a secreted cytokine, IL-1 alpha is predominantly a cell-associated cytokine.

Molecular Weight:

17kDa, observed by non-reducing SDS-PAGE.

Purity:

> 95% as analyzed by SDS-PAGE and HPLC.

Biological Activity:

ED50 < 10 pg/ml, measured in a cell proliferation assay using D10S cells, corresponding to a specific activity of >1 x 10⁸ units/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

APVRSLNCTLRDSQQKSLVMSGPY-
ELKALHLQGQDMEQQVVFMSFVQGEESND-
KIPVALGLKEKNLYLSCVLKDDKPT-
LQLESVDPKNYPKKKMEKRFVFNKIEINN-
KLEFESAQFPNWY-
ISTSQAENMPVFLGGTKGGQDITDFTMQFVSS

Endotoxin:

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

Reconstitution:

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

Storage:

Lyophilized recombinant human Interleukin 1 beta (IL-1 beta) remains stable up to 6 months at -80 $^{\circ}$ C from date of receipt. Upon reconstitution, rhIL-1 β should be stable up to 1 week at 4 $^{\circ}$ C or up to 2 months at -20 $^{\circ}$ C.

Usage:

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