

IL-1 β , Human(CHO-expressed)

Cat. No.: Z02978-1

Size: 1.0 mg

Synonyms: Catabolin, Interleukin-1 beta, IL1F2

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.

Amino Acid Sequence:

```
00001 APVRSLNCTL RDSQQKSLVM SGPYELKALH LQGQDMEQQV
00041 VFSMSFVQGE ESNDKIPVAL GLKEKNLYLS CVLKDDKPTL
00081 QLESVDPKNY PKKKMEKRFV FNKIEINNKL EFESAQFPNW
00121 YISTSQAENM PVFLGGTKGG QDITDFTMQF VSS
```

Source: CHO

Species: Human

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.

Molecular Weight: 17kDa, observed by non-reducing SDS-PAGE.

Formulation: Lyophilized after extensive dialysis against PBS.

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

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

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

Storage: Lyophilized recombinant human Interleukin 1 beta (IL-1 beta) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rhIL-1 β should be stable up to 1 week at 4°C or up to 2 months at -20°C.