

Rev04  
Update: Mar,01,2022

**DATASHEET**

# IL-1 $\beta$ , RhesusMacaque

Cat. No.: Z02758

## Product Introduction

<b>Species</b>	Rhesus Macaque
<b>Protein Construction</b>	<b>IL-1<math>\beta</math> (Ala117-Ser269)</b> Accession # P48090
<b>Purity</b>	> 98% as analyzed by SDS-PAGE > 98% as analyzed by HPLC
<b>Endotoxin Level</b>	< 1 EU/ $\mu$ g of protein by LAL method
<b>Biological Activity</b>	Fully biologically active when compared to standard. The ED <sub>50</sub> as determined by a cell proliferation assay using murine D10.G4.1 cells is less than 10.0 pg/ml, corresponding to a specific activity of > 1.0 $\times$ 10 <sup>8</sup> IU/mg.
<b>Expression System</b>	E. coli
<b>Theoretical Molecular Weight</b>	17.3 kDa
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m filtered solution in PBS, pH 7.4.
<b>Reconstitution</b>	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml.
<b>Storage &amp; Stability</b>	Upon receiving, this product remains stable for up to 6 months at -70°C or -20°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. Avoid repeated freeze-thaw cycles.

## Background

**Target Background** : IL-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. The 17 kDa mature rhesus IL1 $\beta$  shares 96% aa sequence identity with human IL-1 beta.

**Synonyms** : IL1B; IL-1; IL1-BETA; IL1F2; interleukin 1 beta; IL1beta

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