

## Active Recombinant Mouse Il1b Protein (153 aa)

**Cat. No.** Il1b-365l    **Lot. No.** (See product label)

### SPECIFICATION

**Product Overview**      Recombinant mouse Interleukin-1 Beta (rmIL-1 $\beta$ ) produced in E. coli is a single non-glycosylated polypeptide chain containing 153 amino acids. A fully biologically active molecule, rmIL-1 $\beta$  is obtained by proprietary chromatographic techniques, with an apparent molecular weight of 17.5kDa analyzed by reducing SDS-PAGE.

**Species**      Mouse

**Source**      E.coli

**ProteinLength**      153

**Description**      Interleukin-1 Beta (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.

**Form**      Sterile Filtered White lyophilized (freeze-dried) powder.

**Bio-activity**      ED50 < 2.0 pg/mL, measured by the dose-dependent stimulation of mouse D10S cells, corresponding to a specific activity of > 5.0  $\times$  10<sup>8</sup> units/mg.

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<b>Molecular Mass</b>	17.5kDa, observed by reducing SDS-PAGE.
<b>AA Sequence</b>	MVPIRQLHYRLRDEQQKSLVLSDPYELKALHLNGQNINQQVIFSMSFVQGEPNSDKI PVALGLKGKNLYLSCVMKDGTPTLQLESVDPKQYPKMKMEKRFVFNKIEVKSKVEFE SAEFPNWYISTSQAHEHKPVFLGNNSGQDIIDFTMESVSS
<b>Endotoxin</b>	< 0.2 EU/μg, determined by LAL method.
<b>Purity</b>	> 95% by SDS-PAGE and HPLC analyses.
<b>Storage</b>	Lyophilized recombinant mouse Interleukin-1 Beta (rIL-1β) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rIL-1β should be stable up to 2 weeks at 4 centigrade or up to 3 months at -20 centigrade.
<b>Storage Buffer</b>	Lyophilized after extensive dialysis against PBS.
<b>Reconstitution</b>	Reconstituted in ddH <sub>2</sub> O or PBS at 100 μg/mL.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Il1b interleukin 1 beta [ Mus musculus ]</a>
<b>Official Symbol</b>	<a href="#">Il1b</a>
<b>Synonyms</b>	IL1B; interleukin 1 beta; interleukin-1 beta; IL-1 beta; Il-1b; IL-1beta;
<b>Gene ID</b>	<a href="#">16176</a>
<b>mRNA Refseq</b>	<a href="#">NM_008361</a>
<b>Protein Refseq</b>	<a href="#">NP_032387</a>

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