Active Recombinant Mouse Il1b Protein (153 aa)

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

SPECIFICATION

Product Overview	Recombinant mouse Interleukin-1 Beta(rmIL-1β) produced in E. coli is a single non-glycosylated polypeptide chain containing 153 amino acids. A fully biologically active molecule, rmIL-1β 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-1β) 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 × 10^8units/mg.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	17.5kDa, observed by reducing SDS-PAGE.
AA Sequence	MVPIRQLHYRLRDEQQKSLVLSDPYELKALHLNGQNINQQVIFSMSFVQGEPSNDKI PVALGLKGKNLYLSCVMKDGTPTLQLESVDPKQYPKKKMEKRFVFNKIEVKSKVEFE SAEFPNWYISTSQAEHKPVFLGNNSGQDIIDFTMESVSS
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% by SDS-PAGE and HPLC analyses.
Storage	Lyophilized recombinant mouseInterleukin-1 Beta(rmIL-1β) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rmIL-1β should be stable up to 2 weeks at 4 centigrade or up to 3 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH2O or PBS at 100 μg/mL.

GENE INFORMATION

Gene Name	Il1b interleukin 1 beta [Mus musculus]
Official Symbol	Il1b
Synonyms	IL1B; interleukin 1 beta; interleukin-1 beta; IL-1 beta; Il-1b; IL-1beta;
Gene ID	16176
mRNA Refseq	NM_008361
Protein Refseq	NP_032387

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

UniProt ID	P10749

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA