

Active Recombinant Rat Il1b Protein

Cat. No. Il1b-180I **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Il1b Protein without tag was expressed in HEK 293.
Species	Rat
Source	HEK293
Description	Interleukin-1 β 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 < 10 pg/mL, measured in a cell proliferation assay using D10S cells, corresponding to a specific activity of >1 $\times$ 10 ⁸ units/mg
Molecular Mass	17~22 kDa, observed by reducing SDS-PAGE.
AA Sequence	VPIRQLHCRLRDEQQKCLVLSDPCELKALHLNGQNISQQVVFSMSFVQGETSNDKIP VALGLKGLNLYLSCVMKDGTPTLQLESVDPKQYPKKKMEKRFVFNKIEVKTKVEFES AQFPNWIYSTSQAHRPVFLGNSNGRDIVDFTEMPVSS

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Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% as analyzed by SDS-PAGE.
Storage	Lyophilized recombinant Rat Interleukin 1β(IL-1β) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, Rat IL-1β should be stable up to 1 week at 4 centigrade or up to 2 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 [Rattus norvegicus]
Official Symbol	Il1b
Synonyms	IL1B; interleukin 1 beta; interleukin-1 beta; IL-1 beta;
Gene ID	24494
mRNA Refseq	NM_031512
Protein Refseq	NP_113700
UniProt ID	Q63264

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