

Growth Factor Data Sheet

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Interleukin-1 beta (IL1B) is a pro-inflammatory cytokine produced in a variety of cells, including monocytes, tissue macrophages, keratinocytes and other epithelial cells. Both IL1A and IL1B bind to the same receptor and have similar biological properties. These cytokines have a broad range of activities, including stimulation of thymocyte proliferation, by inducing IL2 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 IL1A is predominantly a cell associated cytokine, IL1B is a secreted cytokine.

Catalog Number	1510-01B
Product Name	IL1B (IL-1 beta), Rat Recombinant Rat Interleukin-1 β IL1B Interleukin 1B IL1 β
Source	<i>Escherichia coli</i>
MW	~17.3 kDa (153 amino acids)
Sequence	MVPIRQLHCR LRDEQQKCLV LSDPCELKAL HLNQGNISQQ VVFSMSFVQG ETSNDKIPVA LGLKGLNLYL SCVMKDGTP T LQLESVDPKQ YPKKKMEKRF VFNKIEVKTK VEFESAQFPN WYISTSQAEH RPVFLGNSNG RDIVFTMEP VSS
Accession Number	Q63264
Purity	>97% by SDS-PAGE and HPLC analyses
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ as determined by a cell proliferation assay using murine D10S cells is less than 0.1 ng/ml, corresponding to a specific activity of >1.0 $\times 10^7$ IU/mg.
Formulation	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
Storage/Handling	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage. The reconstituted sample can be apportioned into working aliquots and stored at -80 °C for up to 6 months. Avoid repeated freeze/thaw cycles.
Reconstitution	The sample should be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a siliconized tube using PBS that contains a 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Reconstituted solutions are stable for up to one week at 2-8°C. Stock solutions should be aliquoted and stored at -80°C. Further dilutions should be made in appropriate buffered solutions containing BSA or serum.