



Recombinant Mouse IL-1 beta

20150227BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	M10-013S
Size:	2 µg
Lot. No.:	According to product label

Scientific Background

Gene-ID (NCBI):	16176
Synonyms:	Il1b; Il-1b; IL-1beta

IL-1 β is a proinflammatory cytokine produced in a variety of cells including monocytes, tissue macrophages, keratinocytes and other epithelial cells. Both IL-1 α and IL-1 β 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 β is a secreted cytokine, IL-1 α is predominantly a cell-associated cytokine. Recombinant murine IL-1 β is a 17.5 kDa protein containing 153 amino acid residues.

Sequence

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MVPIRQLHYR LRDEQQKSLV LSDPYELKAL HLNQINQQ  
VIFSMSFVQG EPSNDKIPVA LGLKGNLYL SCVMKDGTP  
LQLESVDPKQ YPKKKMEKRF VFNKIEVKSK VEFESAEPFN  
WYISTSQAEH KPVFLGNNSG QDIIDFTMES VSS
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Database References

Protein RefSeq:	NP_032387
Uniprot ID:	P10749
mRNA RefSeq:	NM_008361

Product Specifications

Expressed in	E. coli
Purity	> 98% by SDS-PAGE & HPLC analyses
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	153
MW:	17.5 kDa

Biological Activity: The ED50 as determined by the dose-dependent stimulation of murine D10S cells is ≤ 0.002 ng/ml, corresponding to a specific activity of $\geq 5 \times 10^8$ units/mg.



AVOID REPEATED FREEZE AND THAW CYCLES!