

Recombinant Murine Interleukin-1 β (IL-1 β)

CATALOG #: 4129-10 10 μ g
4129-50 50 μ g
4129-1000 1 mg

LOT #: _____

SOURCE: *E. coli*

PURITY: >98% by SDS-PAGE and HPLC analysis
Endotoxin level is <0.1 ng per μ g of murine IL-1 β .

MOL. WEIGHT: 17.5 kDa

FORMULATION: Lyophilized from 5 mM Tris, pH 8.0

RECONSTITUTION:

Centrifuge vial before opening. Reconstitute in water to a concentration of 0.1-1 μ g/ μ l. The solution can then be diluted into other aqueous buffers and stored at 4°C for 1 week or -20°C for future use.

STORAGE CONDITIONS:

The lyophilized IL-1 β is best-stored desiccated below 0°C. Reconstituted murine IL-1 β should be stored at working aliquots at -20°C.

DESCRIPTION:

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

BIOLOGICAL ACTIVITY:

The ED₅₀ determined by the dose-dependent stimulation of murine D10S cells is \leq 0.002 ng/ml, corresponding to a specific activity of \geq 5 x 10⁸ units/mg.

FOR RESEARCH USE ONLY! Not to be used on humans.

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