

Product Datasheet

Recombinant Murine Interleukin-1 beta (rMuIL-1β) (orb1495012)

Description IL-1β is a proinflammatory cytokine produced in a variety of cells including

monocytes, tissue macrophages, keratinocytes and other epithelial cells. Both IL- 1α and IL- 1β 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.

Endotoxins Less than 1EU/mg of rmIL-1 β as determined by LAL method.

Preservatives Lyophilized from a 0.2mm filtered solution in PBS, pH 7.4.

Form/Appearance Lyophilized from a 0.2mm filtered solution in PBS, pH 7.4.

Storage This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for

long term storage, preferably desiccated. Upon reconstitution, the preparation is

stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C.

Avoid repeated freeze/thaw cycles.

Note For research use only

Application notes We recommend that this vial be briefly centrifuged prior to opening to bring the

contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at -20°C. Further dilutions

should be made in appropriate buffered solutions.

Protein Sequence MVPIRQLHYR LRDEQQKSLV LSDPYELKAL HLNGQNINQQ VIFSMSFVQG

EPSNDKIPVA LGLKGKNLYL SCVMKDGTPT LQLESVDPKQ YPKKKMEKRF VFNKIEVKSK

VEFESAEFPN WYISTSQAEH KPVFLGNNSG QDIIDFTMES VSS

Purity > 98% by SDS-PAGE and HPLC analyses.

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Source Escherichia coli.

MW Approximately 17.5kDa, a single non-glycosylated polypeptide chain containing

153 amino acids.

Expiration Date 6 months from date of receipt.

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