Recombinant Rat Interleukin–1β (r IL-1β)

PRODUCT ANALYSIS SHEET

Catalog Number:	PRC0811
Lot Number:	L121802
Quantity:	100 µg
Molecular Weight:	17.3 kDa (152 amino acid residues)
Purity:	>95% as determined by SDS-PAGE analysis.
Biological Activity:	ED_{50} range = 0.2-0.5 ng/mL, determined by the dose dependent proliferation of mouse D10S cells. Optimal concentration for individual application should be determined by a dose response assay.
Formulation:	Lyophilized, carrier-free
Sterility:	Filtered prior to lyophilization through a 0.22 micron sterile filter.
Endotoxin:	<0.1 ng/µg
Production:	Produced in *E. coli* and purified by sequential chromatography.
Reconstitution Recommendation:	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute lyophilized rIL-1β in sterile, distilled water to a concentration of 0.1-1.0 mg/mL. Recombinant rIL-1β is also soluble in most buffered solutions. Further dilutions should be made in buffered solution containing a carrier protein such as PBS + 0.1% BSA.
Suggested Working Dilutions:	The optimal concentration should be determined for each specific application.
Storage:	Store lyophilized rIL-1β at 2-8°C, preferably desiccated. Upon reconstitution, apportion into working aliquots and store at ≤-20°C. Avoid repeated freeze/thaw cycles.

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References:

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Nagy, Z., J. Radeff, and P.H. Stern (2001) Stimulation of interleukin-6 promoter by parathyroid hormone, tumor necrosis factor alpha, and interleukin-1 beta in UMR-106 osteoblastic cells is inhibited by protein kinase C antagonists. J. Bone Mineral Research 16(7):1220-1227.

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