

IL1B

Recombinant Human Interleukin-1 beta

Catalog No.	CRI133A	Quantity:	2 µg
	CRI133B		10 µg
	CRI133C		1.0mg

Alternate Names: IL-1, Catabolin, IL-1 Beta, IL1F2

Description: Interleukin-1 beta (IL1 β) is produced, mainly by activated macrophages, as a proprotein which is proteolytically processed to its active form by caspase 1. This cytokine is an important mediator of the inflammatory response, and is involved in a variety of cellular activities, including cell proliferation, differentiation, and apoptosis. Both IL-1 alpha and IL-1 beta bind to the same receptor and have similar but not identical biological properties.

Recombinant Human IL-1 beta is a single non-glycosylated polypeptide chain containing 154 amino acids.

Gene ID: 3553

UniProtKB: P01584

Source: *E. coli*

Molecular Weight: Monomer, 17.5 kDa (154 aa)

Formulation: Lyophilized from a sterile filtered solution of 10 mM sodium phosphate, pH 7.5.

Purity: >95% by reducing and non-reducing SDS-PAGE

Endotoxin Level: 0.195 EU/µg

Biological Activity: Fully biologically active when compared to standard. The ED₅₀ determined by a cell proliferation assay using murine D10S cells is less than 0.38 pg/mL.

Specific Activity: 2.6 x 10⁹ U/mg

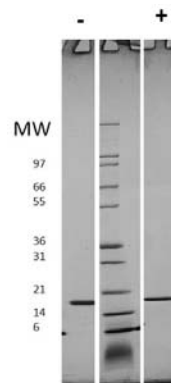
Amino Acid Sequence: MAPVRSLNCT LRDSQQKSLV MSGPYELKAL HLQGQDMEQQ VVFSMSFVQG
EESNDKIPVA LGLKEKNLYL SCVLKDDKPT LQLESVDPKN YPKKKMEKRF
VFNKIEINNK LEFESAQFPN WYISTSQAEN MPVFLGGTKG GQDITDFTMQ FVSS

Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial. **DO NOT VORTEX.** Allow several minutes for reconstitution.

Storage & Stability: **Upon receipt**, store desiccated at -20 °C to -80 °C for up to 1 year. **Upon reconstitution** store at 2-8 °C for up to 1 month. **For long term storage** reconstitute in working aliquots containing 0.1% BSA and store at -20 °C to -80 °C. **Avoid repeated freeze-thaw cycles.**



Figure: 1 μ g in each lane (-) non-reducing conditions and (+) reducing conditions in a 4 - 20% Tris-Glycine gel, stained with Coomassie Blue.



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