

IL1B

Recombinant Human Interleukin-1 beta, Animal Free

Catalog No.	CRI133A-AF	Quantity:	2 µg
	CRI133B-AF		10 µg
	CRI133C-AF		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: ≤ 1 EUs/ μ g by kinetic LAL

Biological Activity: ED₅₀ < 1 pg/ml, determined by D10S cell proliferation.

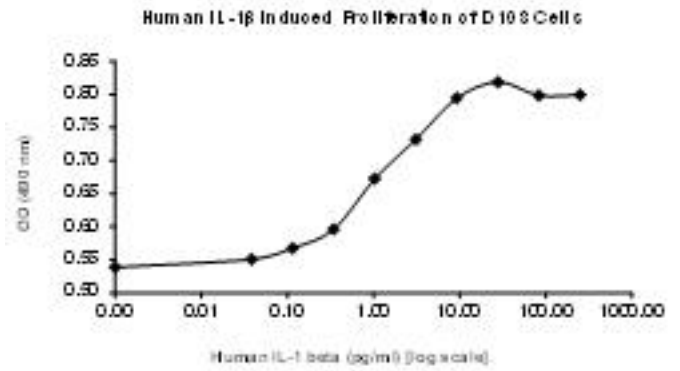
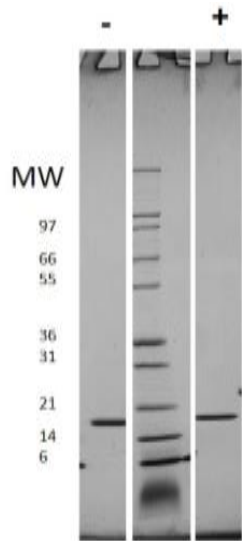
Specific Activity: $\geq 8.3 \times 10^7$ units/mg

Amino Acid Sequence: MAPVRS LNCT LRDSQQKSLV MSGPYELKAL HLQQQDMEQQ VVFSMSFVQG
EESNDKIPVA LGLKEKNLYL SCVLKDDKPT LQLESVDPKN YPKKKMEKRF
VFNKIEINN K L EFESAQFPN WYISTSQAEN MPVFLGGTKG GQDITDFTMQ FVSS

Storage & Stability: **Upon receipt**, store 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.



NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.



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