

Recombinant Bovine Interleukin 1, Beta

Cat. No. IL1B-232B **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Bovine IL-1 beta was expressed in Yeast. MW= 17.7 kDa (153 aa).
Species	Bovine
Source	Yeast
Description	IL-1 beta is a proinflammatory cytokine produced in a variety of cells including monocytes, tissue macrophages, keratinocytes and other epithelial cells. Both IL-1 alpha and IL-1 beta 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 beta is a secreted cytokine, IL-1 alpha is predominantly a cell-associated cytokine.
Formulation/ Reconstitution	Lyophilized. Reconstitute with sterile phosphate-buffered saline containing at least 0.1% carrier protein.
Purification	Ion-exchange chromatography.
Purity	>95% as visualized by SDS-PAGE analysis.
Amino Acid Sequence	APVQSIKCKL QDREQKSLVL ASPCVLKALH LLSQEMNREV VFCMSFVQGE ERDNKIPVAL GIKDKNLYLS CVKKGDTPTL QLEEVDPKVY PKRNMEKRFV FYKTEIKNTV EFESVLYPNW YISTSQIEER PVFLGHFRGG QDITDFRMET LSP.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

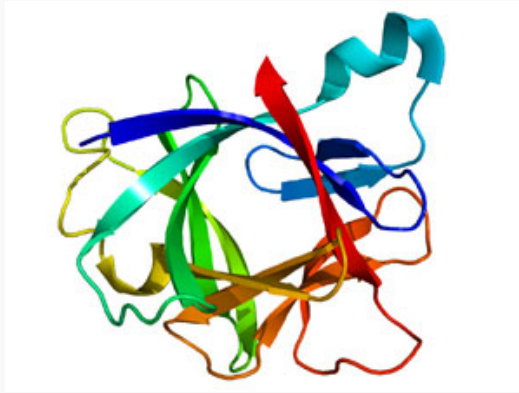
Bioactivity	In testing.
Stability And Storage	Stable for up to twelve months from date of receipt at -20°C. Stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. Avoid repeated freeze/thaw cycles.
GENE INFORMATION	
Gene Name	IL1B interleukin 1, beta [Bos taurus]
Synonyms	interleukin 1, beta; IL1B; IL-1 beta; interleukin-1 beta
Gene ID	281251
mRNA Refseq	NM_174093.1
Protein Refseq	NP_776518.1
UniProt ID	P09428
Chromosome Location	11q23-q24
Pathway	Alzheimer"s disease; Apoptosis; Cytokine-cytokine receptor interaction; Cytosolic DNA-sensing pathway; Graft-versus-host disease; Hematopoietic cell lineage; MAPK signaling pathway; NOD-like receptor signaling pathway; Prion diseases; Toll-like receptor signaling pathway; Type I diabetes mellitus
Function	cytokine activity; growth factor activity; interleukin-1 receptor binding; protein domain specific binding

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