

# Recombinant Canine Interleukin 1, Beta

**Cat. No.** IL1B-243C    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Canine IL1B was expressed in Yeast. MW= 17.5 kDa (152 aa).
<b>Species</b>	Canine
<b>Source</b>	Yeast
<b>Description</b>	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.
<b>Formulation/ Reconstitution</b>	Lyophilized. Reconstitute with sterile phosphate-buffered saline containing at least 0.1% carrier protein.
<b>Purification</b>	Ion-exchange chromatography.
<b>Purity</b>	>95% as visualized by SDS-PAGE analysis.
<b>Amino Acid Sequence</b>	AAMQSV DCKL QDISHKYLVL SNSYELRALH LNGENVNKQV VFHMSFVHGD ESNNKIPVVL GIKQKNLYLS CVMKDGKPTL QLEKVDPKVY PKRKMEKRFV FNKIEIKNTV EFESSQYPNW YISTSQVEGM PVFLGNTRGG QDITDFTMEF SS.

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

 Email: [info@creative-biomart.com](mailto: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 [ *Canis lupus familiaris* ]

**Synonyms**

interleukin 1, beta; IL1B; IL-1; interleukin-1 beta; IL-1 beta; interleukin-1 beta proprotein

**Gene ID**

403974

**mRNA Refseq**

NM\_001037971.1

**Protein Refseq**

NP\_001033060.1

**UniProt ID**

Q28292

**Chromosome Location**

17

**Pathway**

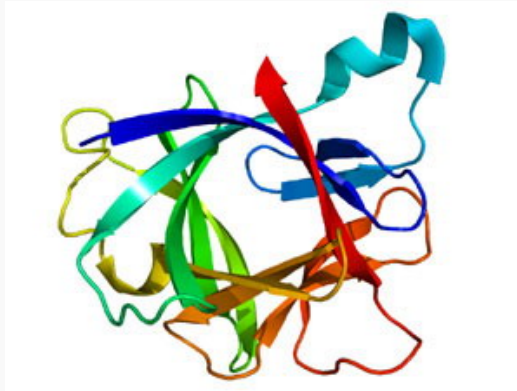
Alzheimer"s disease; Apoptosis; Cytokine-cytokine receptor interaction; Cytosolic DNA-sensing pathway; Graft-versus-host disease; Hematopoietic cell lineage; MAPK signaling pathway; NOD-like receptor signaling pathway; Prion diseases; Toll-like receptor signaling pathway; Type I diabetes mellitus

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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

PDB rendering based  
on 31bi.



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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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