

## Active Recombinant Bovine Interleukin 6 (Interferon, Beta 2)

Cat. No. IL6-241B Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Bovine IL-6 was expressed in Yeast. MW= 20.7 kDa (179 aa).
<b>Species</b>	Bovine
<b>Source</b>	Yeast
<b>Description</b>	Interleukin-6 (IL-6) is a protein that in humans is encoded by the IL6 gene. IL-6 is an interleukin that acts as both a pro-inflammatory and anti-inflammatory cytokine. It is secreted by T cells and macrophages to stimulate immune response to trauma, especially burns or other tissue damage leading to inflammation. In terms of host response to a foreign pathogen, IL-6 has been shown, in mice, to be required for resistance against the bacterium, <i>Streptococcus pneumoniae</i> . IL-6 is also a "myokine," a cytokine produced from muscle, and is elevated in response to muscle contraction.
<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>	GPLGEDFKND TTPGRLLLTT PEKTEALIKR MVDKISAMRK EICEKNDECE SSKETLAENK LNLPKMEEKD GCFQSGFNQA ICLIRTTAGL LEYQIYLDYL QNEYEGNQEN VRDLRKNIRT LIQILKQKIA DLITTPATNT DLLEKMQSSN

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EWVKNAKIIL ILRNLENFLQ FSLRAIRMK.

**Bioactivity** Currently, there is no known bioassay for bovine IL-6.

**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** [IL6 interleukin 6 \(interferon, beta 2\) \[ Bos taurus \]](#)

**Synonyms** interleukin 6 (interferon, beta 2); IL6; interleukin-6; IL-6

**Gene ID** [280826](#)

**mRNA Refseq** [NM\\_173923.2](#)

**Protein Refseq** [NP\\_776348.1](#)

**UniProt ID** [P26892](#)

**Chromosome Location** 4

**Pathway** Cytokine-cytokine receptor interaction; Cytosolic DNA-sensing pathway; Graft-versus-host disease; Hematopoietic cell lineage; Hypertrophic cardiomyopathy (HCM); Intestinal immune network for IgA production; Jak-STAT signaling pathway; NOD-like receptor signaling pathway; Pathways in cancerPrion diseases; Toll-like receptor signaling pathway

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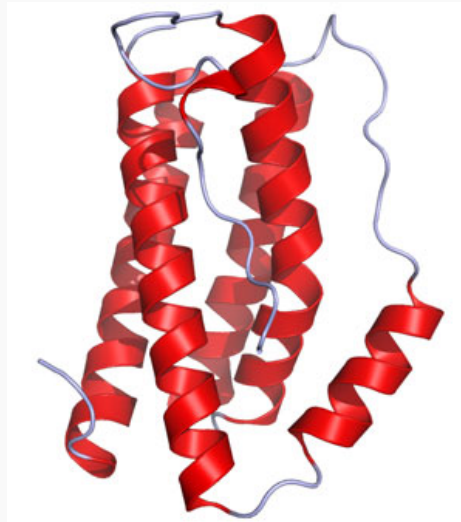
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**Function**

cytokine activity; growth factor activity; interleukin-6 receptor binding; protein binding

PDB rendering based  
on 1ALU.



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