

## 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/<br/>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<br/>Sequence</b>         | GPLGEDFKND TTPGRLLLT PEKTEALIKR MVDKISAMRK EICEKNDECE<br>SSKETLAENK LNLPMKEEKD GCFQSGFNQA ICLIRTTAGL LEYQIYLDYL<br>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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**Function**

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

PDB rendering based  
on 1ALU.



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