

Active Recombinant Bovine Interleukin 6 (Interferon, Beta 2)

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

SPECIFICATION

Product Overview	Recombinant Bovine IL-6 was expressed in Yeast. MW= 20.7 kDa (179 aa).
Species	Bovine
Source	Yeast
Description	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.
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	GPLGEDFKND TTPGRLLLT PEKTEALIKR MVDKISAMRK EICEKNDECE SSKETLAENK LNLPMKEEKD 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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Function

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

PDB rendering based
on 1ALU.



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