

Recombinant Bovine Interleukin 15

Cat. No. IL15-235B Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Bovine IL-15 was expressed in Yeast. MW= 13.2 kDa(114 aa).
Species	Bovine
Source	Yeast
Description	Interleukin 15 (IL-15) is a novel cytokine that uses beta- and gamma-chain of IL-2R for signal transduction and is structurally similar to IL-2. IL-15 is secreted by activated monocytes/macrophages following infection by virus. This cytokine induces cell proliferation of natural killer cells. This cytokine and interleukin 2 share many biological activities. They are found to bind common hematopoietin receptor subunits, and may compete for the same receptor, and thus negatively regulate each other's activity. This cytokine induces the activation of JAK kinases, as well as the phosphorylation and activation of transcription activators STAT3, STAT5, and STAT6. IL-15 can recruit and activate T lymphocytes in the synovial membrane, thereby contributing to Rheumatoid arthritis pathogenesis.
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	NWQYVINDLK TIEHLIQSIH MDATLYTESD AHPNCKVTAM QCFLLELRVI

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Sequence	LHESKNATIY EIIENLTMLA NSNLSSIENK TELGCKECEE LEEKSIKEFL KSFVHIVQMF INTS.
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	IL15 interleukin 15 [Bos taurus]
Synonyms	interleukin 15; IL15; interleukin-15; IL-15
Gene ID	281248
mRNA Refseq	NM_174090.1
Protein Refseq	NP_776515.1
UniProt ID	Q28028
Chromosome Location	17
Pathway	Cytokine-cytokine receptor interaction; Intestinal immune network for IgA production; Jak-STAT signaling pathway
Function	cytokine activity; cytokine receptor binding; protein binding

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