

Active Recombinant Equine Interleukin 15

Cat. No. IL15-253E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Equine IL-15 was expressed inYeast. MW= 13.0 kDa(114 aa).
Species	Equine
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 similarity 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	NWQDVISDLK RIEDLIQSIH VDATLYTESD AHPNCKVTAM KCFLLLELHVI

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Sequence	SHESRNEDIK ETVENLIILA NSSLSSNGNV TESGCKECEE LEEKNIKEFL QSFVHIVQMF INPS.
Bioactivity	The biological activity of recombinant equine IL-15 measured in a cell proliferation assay using CTLL2 mouse cytotoxic T cells. The ED50 for this effect is typically 50 - 75 ng/mL.
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 [Equus caballus]
Synonyms	interleukin 15; IL15
Gene ID	100034058
mRNA Refseq	NM_001163986.1
Protein Refseq	NP_001157458.1
Chromosome Location	2
Pathway	Cytokine-cytokine receptor interaction; Intestinal immune network for IgA production; Jak-STAT signaling pathway

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