

Recombinant Equine Interleukin-15 (req IL-15)

Synonyms: none

Introduction: IL-15 regulates T and natural killer cell activation and proliferation. IL-15 and IL-2 share many biological activities. They are found to bind common hematopoietin receptor subunits, may compete for the same receptor and thus negatively regulate each other's activity. The number of CD8+ memory cells is shown to be controlled by a balance between IL-15 and IL-2. IL-15 induces the activation of JAK kinases as well as the phosphorylation and activation of transcription activators STAT3, STAT5, and STAT6. Studies of the mouse counterpart suggested that IL-15 may increase the expression of apoptosis inhibitor BCL2L1/BCL-x(L), possibly through the transcription activation activity of STAT6 and thus prevent apoptosis. Two alternatively spliced transcript variants of this gene encoding the same protein have been reported.

Description: Recombinant equine IL-15 produced in *E.Coli* is a single, non-glycosylated polypeptide chain containing 115 amino acids and having a molecular mass of 13146 Dalton. req IL-15 is purified by proprietary chromatographic techniques.

Source: *Escherichia Coli*.

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: lyophilized from a 0.22 µm filtered solution in 25 mM sodium phosphate + 0.1 NaCl, pH 7.0.

Solubility: It is recommended to reconstitute the lyophilized req IL-15 in sterile H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability: Lyophilized req IL-15 although stable at room temperature for 3 weeks, should be stored desiccated below -18° C . Upon reconstitution req IL-15 should be stored at 4° C between 2-7 days and for future use below -18° C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity: 95.0% as determined by SDS-PAGE Silver Stained gel.

Amino acid sequence: The sequence of the first five N-terminal amino acids was determined and was found to be Met-Asn-Trp-Glu-Asp.

Biological Activity: testing in progress

Endotoxicity: The endotoxin level is less than 1ng /µg (IEU/µg) determined by LAL method

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<i>small</i>	2 µg	Cat.N°	18340152
<i>medium</i>	10 µg	Cat.N°	18340153
<i>large</i>	50 µg	Cat.N°	18450155

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Gladiolenweg 2; 26169 Friesoythe; Germany
 phone:+49-(0)4491-400997, fax:+49-(0)4491-400998, info@immunotools.com
www.immunotools.com