

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

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

This material is offered for **research only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<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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