

## Recombinant Murine Interleukin-15 (rm IL-15)

Murine **Interleukin-15** regulates T and natural killer cell activation and proliferation. This cytokine and interleukine 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. The number of CD8+ memory cells is shown to be controlled by a balance between this cytokine and IL2. This cytokine 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 this cytokine 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.

**Recombinant murine IL-15** produced in *E.Coli* is a single, non-glycosylated polypeptide chain containing 115 amino acids and having a molecular mass of 13.3 kDa.

rm IL-15 is purified by proprietary chromatographic techniques

**Synonyms :** MGC9721

**Source:** *Escherichia coli*

**AA Sequence:** MNWIDVRYDL EKIESLIQSI HIDTTLYTDS DFHPSCKVTA MNCFLLELQV  
ILHEYSNMTL NETVRNVLYL ANSTLSSNKN VAESGCKECE ELEEKTFTEF  
LQSFIRIVQM FINTS

**Formulation:** Lyophilized from a concentrated (1 mg/ml) solution with 10 mM Na<sub>2</sub>PO<sub>4</sub>, pH 8.0.

**Reconstitution:** Reconstitute in sterile endotoxin free water not less than 100 µg/ml

**Stability:** The lyophilized protein although stable at room temperature for 3 weeks, should be stored desiccated below -18° C . Upon reconstitution rm IL-13 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.

**Biological Activity:** The ED<sub>50</sub> as determined by the dose-dependant stimulation of the proliferation of CTLL-2 cells was found to be 4 - 6 ng/ml.

**Purity:** Greater than 95.0% as determined by SDS-PAGE

**Endotoxicity:** The endotoxin level is less than 0.1 ng per µg (1EU/µg) determined by LAL method

**Order N°:** rm IL-15 +Size  
available sizes: 2 µg, 10 µg, 50 µg

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