9051 Mira Mesa Blvd, #910094
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IL 15 Human

Interleukin-15 Human Recombinant
CYK0254

Product Overview

Name	IL 15 Human
Description	
Interleukin-15 Human Recombinant	
Accession (Primary)	P40933
Synonyms	
IL-15, MGC9721.	
Introduction	
The protein encoded by this gene is a cytokine that 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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
The protein was lyophilized from PBS pH 7.4.	
Stability	
Lyophilized Interleukin-15 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL15 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	
Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis SDS-PAGE.	
Amino acid sequence	

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NWVNVISDLK KIEDLIQSMH IDATLYTESD VHPSCKVTAM KCFLLELQVI SLESGDASIH DTVENLIILA NNSLSSNGNV TESGCKECEE LEEKNIKEFL QSFVHIVQMF INTS.

Biological Activity

The ED50 as determined by using the cell proliferation assay MO7e human megakaryocytic leukemic cells was found to be 0.3-2.6ng/ml corresponding to a specific activity greater than $1.5x10^8$U/mg.

Solubility

It is recommended to reconstitute the lyophilized Interleukin-15 in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

IL 15 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P40933)