
Product Data Sheet

Product Name: IL 15 Human
 Cat. No.: GP20568
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	IL-15; MGC9721.		
Amino Acid Sequence	MNWVNVISDL KKIEDLIQSM HIDATLYTES DVHPSCKVTA MKCFLLELQV ISLESGDASI HDTVENLIIL ANNSLSSNGN VTESGCKECE ELEEKNIKEF LQSFVHIVQM FINTS.		
Solubility	It is recommended to reconstitute the lyophilized Interleukin-15 in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The protein was lyophilized from PBS pH 7.4.		

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.

Biological Activity

The ED50 as determined by the dose-dependant stimulation of the proliferation of mouse CTLL-2 was found to be < 0.5 ng/ml, corresponding to a Specific Activity of 2 x

Caution: Product has not been fully validated for medical applications. For research use only.

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106 IU/mg.

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.

Background

Interleukin-15 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 114 amino acids and having a molecular mass of 12.9kDa. The IL-15 is purified by proprietary chromatographic techniques.

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