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## Product Data Sheet

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Product Name: IL 15 Human, His  
 Cat. No.: GP20569  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	IL-15; MGC9721.		
Amino Acid Sequence	MNWVNVISDL KKIEDLIQSM HIDATLYTES DVHPSCKVTA MKCFLLELQV ISLESGDASI HDTVENLIIL ANNSLSSNGN VTESGCKECE ELEEKNIKEF LQSFVHIVQM FINTSLEHHH HHH.		
Formulation	IL-15 His is supplied in 20mM Tris-HCl buffer (pH 8.0) 0.2mM PMSF and 10% glycerol.		

### 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

Measured in a cell proliferation assay using CTLL2 mouse cytotoxic T cells. The ED50 for this effect is < 2.5ng/ml, corresponding to a Specific Activity of 400,000units/mg.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store. frozen at -20°C for longer

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

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periods of time. Please avoid freeze thaw cycles.

### Background

Interleukin-15 His Human Recombinant ?produced in E.Coli is single, a non-glycosylated, Polypeptide chain containing 123 amino acids fragment (49-162) having a total molecular weight of 13.9 kDa with an C-terminal hexahistidine tag. The IL-15 His is purified by proprietary chromatographic techniques.

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