



Product Datasheet

Product Name	Interleukin-15 Human Recombinant, HisTag
Cata No	CB500392
Source	<i>Escherichia Coli.</i>
Synonyms	IL-15, MGC9721.

Description

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.

Interleukin-15 His Human Recombinant produced in E.Coli is single, a non-glycosylated, Polypeptide

chain containing 114 amino acids fragment (49-162) having a total molecular weight of 13 kDa with an amino-terminal hexahistidine tag.

The IL-15 His is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile Filtered clear solution.

Purity

Greater than 95.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE

Formulation

IL-15 His is supplied in 20mM Tris HCL pH=8 and 50% glycerol.

Stability

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

Store, frozen at -20°C for longer periods of time.

Please avoid freeze thaw cycles.