


## Human IL-15 protein

Cat #: PRP100104

Size: 10µg/100µg/1mg

### Product Information

	<b>Product Name:</b> Human IL-15 protein		
<b>REF</b>	<b>Catalog Number:</b> PRP100104	<b>LOT</b>	<b>Lot Number:</b> Refer to product label
	<b>Purity:</b> > 95 % as determined by SDS-PAGE.		
	<b>Storage:</b> Store at -20°C		<b>Preparation method:</b> E. coli
	<b>Shipping:</b> The product is shipped at ambient temperature.		

**Background:** The protein encoded by IL-15 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.

**Sequence:** Amino acid sequence derived from human IL15 (NP\_000576.1) (Asn49-Ser162) was expressed.

**Protein length:** The recombinant human IL15 consists of 114 amino acids and predicts a molecular mass of 12.8 kDa.

**Formulation:** Lyophilized from sterile 50 mM Tris, 200 mM NaCl, pH 8.0.

**Storage Instructions:** Lyophilized Human IL15 protein product should be stored desiccated below -18°C. Upon reconstitution, the protein 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.

**Usage notes:** Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized Human IL15 protein in sterile ddH<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

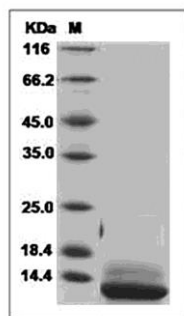


Fig. SDS-PAGE analysis of Human IL-15 protein.

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