

## Recombinant Human IL7, His-tagged

Cat. No. IL7-14210H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human IL7 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-177a.a.
<b>Description</b>	<p>The protein encoded by this gene is a cytokine important for B and T cell development. This cytokine and the hepatocyte growth factor (HGF) form a heterodimer that functions as a pre-pro-B cell growth-stimulating factor. This cytokine is found to be a cofactor for V(D)J rearrangement of the T cell receptor beta (TCRB) during early T cell development. This cytokine can be produced locally by intestinal epithelial and epithelial goblet cells, and may serve as a regulatory factor for intestinal mucosal lymphocytes. Knockout studies in mice suggested that this cytokine plays an essential role in lymphoid cell survival. Alternative splicing results in multiple transcript variants encoding distinct isoforms. Additional splice variants have been described but their presence in normal tissues has not been confirmed.</p>
<b>Storage</b>	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
<b>Storage Buffer</b>	1M PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8. ) added with 300mM Imidazole and 0.7% Sarcosyl, 15%glycerol.

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## GENE INFORMATION

**Gene Name** [IL7 interleukin 7 \[ Homo sapiens \]](#)

**Official Symbol** [IL7](#)

**Synonyms** [IL7](#); [interleukin 7](#); [interleukin-7](#); [IL 7](#); [IL-7](#);

**Gene ID** [3574](#)

**mRNA Refseq** [NM\\_000880](#)

**Protein Refseq** [NP\\_000871](#)

**MIM** [146660](#)

**UniProt ID** [P13232](#)

**Chromosome Location** [8q12-q13](#)

**Pathway** [Cytokine Signaling in Immune system, organism-specific biosystem](#); [Cytokine-cytokine receptor interaction, organism-specific biosystem](#); [Cytokine-cytokine receptor interaction, conserved biosystem](#); [Hematopoietic cell lineage, organism-specific biosystem](#); [Hematopoietic cell lineage, conserved biosystem](#); [Immune System, organism-specific biosystem](#); [Interleukin-7 signaling, organism-specific biosystem](#);

**Function** [cytokine activity](#); [cytokine receptor binding](#); [growth factor activity](#); [growth factor activity](#); [interleukin-7 receptor binding](#); [protein binding](#);

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