

Recombinant Human IL7, His-tagged

Cat. No. IL7-65H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	IL-7 Human Recombinant produced in E.Coli is single, a non-glycosylated, Polypeptide chain containing 152 amino acids fragment (26-177) and having a total molecular mass of 21.97 kDa with an amino-terminal hexahistidine tag. The IL-7 His-Tag protein is purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
ProteinLength	26-177 a.a.
Description	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.
Form	Sterile Filtered clear solution. Interleukin -7 His is supplied in 1x PBS and 50% glycerol.

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Molecular Mass	21.97 kDa
Purity	Greater than 95.0% as determined by RP-HPLC and SDS-PAGE.
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.
GENE INFORMATION	
Gene Name	IL7 interleukin 7 [Homo sapiens (human)]
Official Symbol	IL7
Synonyms	IL7; IL-7; interleukin 7; interleukin-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; Hematopoietic cell lineage; Interleukin-7 signaling
Function	cytokine activity; growth factor activity; interleukin-7 receptor binding

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