

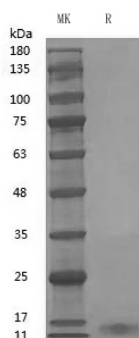
**Product Name: Recombinant Human IL-7**  
**Catalog #: PCH2521**



## Summary

<b>Name</b>	IL-7
<b>Purity</b>	Greater than 98% as determined by reducing SDS-PAGE
<b>Endotoxin level</b>	≤10 EU/mg
<b>Construction</b>	Recombinant Human IL-7 is produced by our Mammalian cell expression system and the target gene encoding Asp26-His177 is expressed.
<b>Accession #</b>	P13232
<b>Host</b>	Human Cells
<b>Species</b>	Human
<b>Predicted Molecular Mass</b>	17.3 kDa
<b>Formulation</b>	Lyophilized From PBS,5% mannitol and 0.01% Tween 80, pH7.4
<b>Shipping</b>	The product is shipped on dry ice/polar packs.Upon receipt, store it immediately at the temperature listed below.
<b>Stability&amp;Storage</b>	Store at ≤-70°C, stable for 6 months after receipt.Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
<b>Reconstitution</b>	Always centrifuge tubes before opening.Do not mix by vortex or pipetting.It is not recommended to reconstitute to a concentration less than 100µg/ml.Dissolve the lyophilized protein in distilled water.Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

## SDS-PAGE image



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## Background

**Alternative Names** Interleukin-7; IL-7; IL7

**Background** Human Interleukin 7 (IL-7) is a potent lymphoid cell growth factor stimulating the proliferation of lymphoid progenitors. IL7 can associate with the hepatocyte growth factor (HGF) to form a hybrid cytokine that functions as a pre-pro-B cell growth-stimulating factor. Human IL7 cDNA encodes a 177 amino acid precursor protein containing a 25 amino acid signal peptide and a 152 amino acid mature protein. Human and mouse IL7 share 65% sequence identity in the mature region and both exhibit cross-species activity. IL-7 signals via IL-7 receptor (IL7R) activating multiple pathways including JaK/STAT and PI3K/AKT, which regulate lymphocyte survival, glucose uptake, proliferation, and differentiation. IL-7 is also associated with cytoplasmic IL2-R gamma for signal transduction.

## Note

For Research Use Only , Not for Diagnostic Use.