

## **Recombinant Human IL-7**

Catalog #	EPT013	
Expression Host	E.coli	
DESCRIPTION	Recombinant Human Interleukin-7 is produced by our	
	E.coli expression system and the target gene encoding	
	Asp26-His177 is expressed.	
Accession	P13232	
Synonyms	Interleukin-7; IL-7; IL7	
Mol Mass	17.5 KDa	
AP Mol Mass	18 KDa, reducing conditions	
Purity	Greater than 95% as determined by reducing	
	SDS-PAGE.	
Endotoxin	Less than 0.001 ng/ $\mu$ g (0.01 EU/ $\mu$ g) as determined by	
	LAL test.	
FORMULATION	Lyophilized from a 0.2 $\mu$ m filtered solution of 20mM	
	PB, 300mM NaCl, pH 8.0.	
RECONSTITUTION	Always centrifuge tubes before opening.Do not mix by	
	vortex or pipetting.	

It is not recommended to reconstitute to a



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concentration less than 100µg/ml. Dissolve the lyophilized protein in distilled water.

Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

SHIPPINGThe product is shipped at ambient temperature.Upon receipt, store it immediately at the temperaturelisted below.

STORAGELyophilized protein should be stored at < -20 ° C,<br/>though stable at room temperature for 3 weeks.<br/>Reconstituted protein solution can be stored at 4-7°C<br/>for 2-7 days.

Aliquots of reconstituted samples are stable at < -20° C for 3 months.

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%



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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.

kDa	MK	R
120 90 60		
40		
30	)	
20	-	
14	-	

## **SDS-PAGE**



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