

Catalog Number: HZ-1281

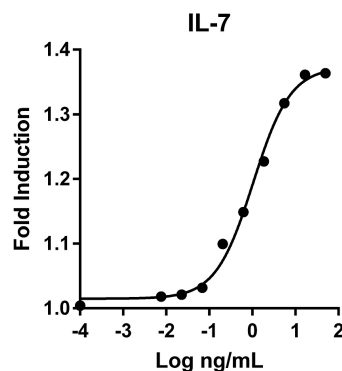
HEK293 expressed

Endotoxin-free

Animal-component free

## Technical Specifications

Species	Human
Expression	HEK293
Activity	Typically $\leq 1$ ng/mL EC50
Purity	>95%
Endotoxin	<1 EU/ $\mu$ g
Molecular Mass	19, 25, and 30 kDa, monomer, glycosylated
Formulation	1x PBS, See Certificate of Analysis for details
Gene ID	3574



## Reconstitution Buffer

Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile 1xPBS containing 0.1% endotoxin-free recombinant human serum albumin (HSA).

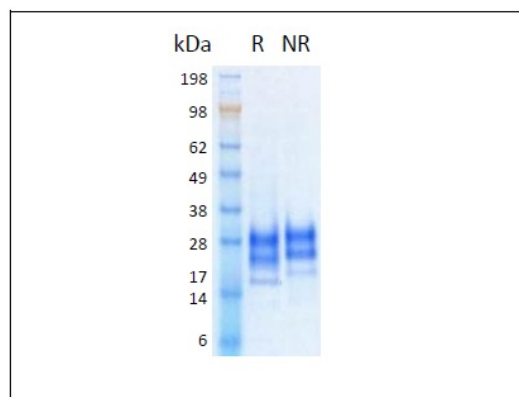
The specific activity was determined by the dose-dependent stimulation of the proliferation of murine 2E8 cells using Promega CellTiter96<sup>®</sup> Aqueous Non-Radioactive Cell Proliferation Assay.

## Stability and Storage

Lyophilized proteins are stable for 1 year from the date of receipt if stored between (-20°C) and (-80°C). Upon reconstitution we recommend that the solution can be stored at (4°C) for short term or at (-20°C) to (-80°C) for long term. Repeated freeze thaw cycles should be avoided with reconstituted products.

## Product Description

Animal-free Recombinant Human IL-7 is expressed in Human 293 cells as a highly glycosylated protein. Under reducing conditions, IL-7 migrates as three separate bands as 19 kDa, 25 kDa and 30 kDa. In comparison IL-7 produced in an E. coli expression system have glycosylation and migrate as a single band at 17 kDa. IL-7 is a hematopoietic cytokine that is important for B and T cell development. When combined with other factors, IL-7 can also co-stimulate the proliferation of mature T cells. Production in human 293 cells uses a serum-free, chemically defined media and offers authentic glycosylation.



The protein was resolved by SDS-polyacrylamide gel electrophoresis and the gel was stained with Coomassie blue. R represents reducing conditions and NR represents non-reducing conditions.

## Synonyms

Lymphopoietin 1(LP-1), pre-B cell factor Lymphopoietin 1(LP1), Lymphopoietin 1(LP 1)

For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com  
W: ptglab.com

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