

**DATASHEET**  
Version 20181206**IL-7, His, Rat****Cat. No.:** Z03197-1**Size:** 1.0 mg**Synonyms:** Lymphopoietin 1(LP-1), pre-B cell factor**Description:**

Interleukin-7 (IL-7), also known as lymphopoietin 1 and pre-B cell factor, is a hematopoietic growth factor belonging to the IL-7/IL-9 family. It is produced by keratinocytes, dendritic cells, hepatocytes, neurons and epithelial cells. IL-7 binds and signals through IL-7 receptor, a heterodimer consisting of IL-7 receptor alpha and common gamma chain receptor. IL-7 plays a role in regulating early B cell and T cell development. It is also important for optimal dendritic cell-T cell interaction.

**Amino Acid Sequence:**

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00001 DCHIKDKDGK AFGSVLMISI NQLDKMTGTD SDCPNNEPNF
00041 FKKHLCDDTK EAAFLNRAAR KLRQFLKMNI SEEFNDHLLR
00081 VSDGTQTLVN CTSKEEKTIC EQKKNDPCFL KRLLREIKTC
00121 WNKILKGSIH HHHHH
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**Source:** CHO**Species:** Rat**Biological Activity:** ED<sub>50</sub> < 22 ng /ml, measured in a cell proliferation assay using 2E8 cells.**Molecular Weight:** 20-28 kDa, observed by reducing SDS-PAGE.**Formulation:** Lyophilized after extensive dialysis against PBS.**Reconstitution:** Reconstituted in ddH<sub>2</sub>O or PBS at 100 µg/ml.**Purity:** > 95% as analyzed by SDS-PAGE.**Endotoxin Level:** < 0.2 EU/µg, determined by LAL method.**Storage:** Lyophilized recombinant rat Interleukin-7 (IL-7), His remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rat Interleukin-7 (IL-7), His should be stable up to 1 week at 4°C or up to 2 months at -20°C.