

## 32-1426: rIL 7 Recombinant Protein

**Alternative Name :** Lymphopoietin 1 (LP-1),pre-B cell factor,IL-7.

### Description

Source : Escherichia Coli. IL 7 Rat Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 129 amino acids and having a molecular mass of 15.0kDa.The IL 7 is purified by proprietary chromatographic techniques. IL-7 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.

### Product Info

<b>Amount :</b>	10 µg
<b>Purification :</b>	Greater than 98.0% as determined by SDS-PAGE.
<b>Content :</b>	Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.
<b>Storage condition :</b>	Lyophilized IL-7 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL-7 should be stored at 4°C between 2-7 days and for future use below -18°C.Please prevent freeze-thaw cycles.
<b>Amino Acid :</b>	DCHIKDKDGK AFGSVLMISI NQLDKMTGTD SDCPNNEPNF FKKHLCDDTK EAAFLNRAAR KLRQFLKMNI SEEFNDHLLR VSDGTQTLVN CTSKEEKTIC EQKKNDPCFL KRLLEIKTC WNKILKGS

### Application Note

It is recommended to reconstitute the lyophilized IL-7 in sterile 18M-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions. The ED50 was determined by the dose-dependent stimulation of the proliferation of murine 2E8 cells is less than 0.2ng/ml, corresponding to a specific activity of >5,000,000IU/mg.