

## IL 7 Rat

**Description:** 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.

**Catalog #:** CYPs-170

For research use only.

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

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered White lyophilized (freeze-dried) powder.

**Amino Acid Sequence:** DCHIKDKDGK AFGSVLMISI NQLDKMTGTD SDCPNNEPNF  
FKKHLCDDTK EAAFLNRAAR KLRQFLKMNI SEEFNDHLLR VSDGTQTLVN CTSKEEKTIK  
EQKKNDPCFL KRLLREIKTC WNKILKGS

**Purity:** Greater than 98.0% as determined by SDS-PAGE.

**Formulation:**

Lyophilized from a 0.2

**Stability:**

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.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Solubility:**

It is recommended to reconstitute the lyophilized IL-7 in sterile 18M-cm H<sub>2</sub>O not less than 100

**Introduction:**

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.

**Biological Activity:**

Fully biologically active when compared to standard. The ED<sub>50</sub> 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.

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