

## IL 7 Mouse

**Description:** Interleukin-7 Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 130 amino acids and having a molecular mass of 15.0 kDa. The IL-7 is purified by proprietary chromatographic techniques.

**Catalog #:** CYP5-379

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

For research use only.

**Source:** Escherichia Coli.

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

**Amino Acid Sequence:** MECHIKDKEG KAYESVLMIS IDELDKMTGT DSNCPPNNEPN  
FFRKHVCDT KEAFLNRAA RKLKQFLKMN ISEEFNVHLL TVSQGTQLV NCTSKEEKNV  
KEQKKNDACF LKRLLEIKT CWNKILKGS.

**Purity:** Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

**Formulation:**

Filtered (0.2

**Stability:**

Lyophilized Interleukin-7 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL7 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). 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 Interleukin 7 in sterile 18M-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

**Introduction:**

Interleukin-7 is a potent lymphoid cell growth factor produced primarily by stromal cells. IL-7 has been shown to support the proliferation and differentiation of pre B- and early T cells as well as displaying a biological effect on cells of NK and myeloid lineages.

**Biological Activity:**

The ED50 as determined by the dose-dependant stimulation of murine 2E8 cells is <math>0.2\text{ng/ml}</math>, corresponding to a Specific Activity of 5,000,000 units/mg.

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