

# Recombinant Mouse, IL7 / Interleukin-7, Animal Free & Carrier Free

Cat #: C-CYP122 Size: 5µg, 20µg, 100µg, 500µg, 1mg Shipping: Blue Ice

### **Product Overview**

Interleukin 7 (IL-7) is a protein that in humans is encoded by the IL7 gene. IL-7 stimulates the differentiation of multipotent (pluripotent) hematopoietic stem cells into lymphoid progenitor cells. It is important for proliferation during certain stages of B-cell maturation, T and NK cell survival, development and homeostasis.

## **Product Information**

Source: Escherichia Coli.

Purity: >98% as determined by SDS-PAGE. Ni-NTA chromatography.

Biological Activity: Measured in a cell proliferation assay using PHA- activated human peripheral blood lymphocytes

(PBMC). The ED<sub>50</sub> for this effect is < 0.2 ng/mL. The specific activity of recombinant mouse IL-7 is > 5 x 10<sup>6</sup> IU/mg.

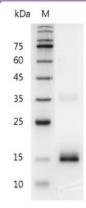
**Endotoxin:** < 0.1 EU per 1  $\mu$ g of the protein by the LAL method.

Amino acid sequence:

MECHIKDKEGKAYESVLMISIDELDKMTGTDSNCPNNEPNFFRKHVCDDTKEAAFLNRAARKLKQFLKMNISEEFN VHLLTVSQGTQTLVNCTSKEEKNVKEQKKNDACFLKRLLREIKTCWNKILKGSI with polyhistidine tag at the C- terminus Formulation: Lyophilized from a sterile filtered aqueous solution in 1×PBS, pH 7.4.







SDS-PAGE analysis of recombinant mouse IL-7

# **Usage Method**

1. Before opening, it is recommended to centrifuge at 3000-3500 rpm for 5 minutes.

2. Reconstitute to a concentration of 0.1-1.0 mg/mL in sterile distilled  $H_2O$ . Allow the solution to sit at room temperature for at least 20 minutes to ensure complete dissolution. Avoid vigorous vortexing.

3. The reconstituted solution can be stored at 2-8°C for up to 1 week.

4. For long-term storage, it is recommended to further dilute the solution with a carrier protein (such as 0.1% BSA, 10% FBS, or 5% HSA) to a concentration of no less than 10  $\mu$ g/mL and aliquot for storage at -20°C to -80°C for 3 to 6 months. If serum-free experiments are required, a 5% trehalose solution can be used as a carrier instead. Avoid repeated freeze-thaw cycles.

## Storage

Physical Appearance	Storage	Stability
Lyophilized powder	-20°C to -80°C	1 year
Reconstitution (initial)	2°C to 8°C	Less than 1 week
Reconstitution (after dilution)	-20°C to -80°C	3 to 6 months

### Note

The reagent is only used in the field of scientific research, not suitable for clinical diagnosis or other purposes.

