

## Murine IL-7

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

**PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING**

Size	Order #	Lot #	Expiry Date
2 µg	1530.960.002		
10 µg	1530.960.010		
1 mg	1530.960.199		

Please enquire for bulk quantities and other vial sizes

### Description

Interleukin-7 Murine Recombinant produced in *E.Coli* is a single, non-glycosylated polypeptide chain containing 129 amino acids and having a molecular mass of 14.9kDa.

- **Biological Activity**  $\geq 5 \times 10^6$  IU/mg
- **Source** *E. Coli*
- **Purity**  $\geq 96$  % (SDS-PAGE, RP-HPLC)
- **Endotoxin level**  $\leq 0.1$ ng/µg ( $\leq 1$ EU/µg)
- **Buffer** Filtered (0.2µm) and lyophilized from a concentrated (1mg/ml) solution in 1×PBS, pH7.4 and 2% trehalose\*
- **Physical state** Sterile filtered, lyophilized

### Biological Activity

The ED<sub>50</sub> was determined by the dose-dependent stimulation of the proliferation of murine 2E8 cells is less than 0.2 ng/ml, corresponding to a specific activity of  $>5.0 \times 10^6$  IU/mg.

### Reconstitution

We recommend a quick spin followed by reconstitution in sterile water to a concentration of at least 100 µg/ml, which can then be further diluted to other aqueous solutions. Do not vortex.

### 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 avoid repeated freeze-thaw cycles.**

### Amino Acid Sequence

ECHIKDKEGK AYESVLMISI DELDKMTGTD SNCPNNEPNF FRKHVCDDTK EAAFLNRAAR KLKQFLKMNI  
SEEFNVHLLT VSQGTQTLVN CTSKEEKNVK EQKNDACFL KRLLEIKTC WNKILKGS I

**Usage:** For research use only. Not for use in diagnostic or therapeutic procedures. Not for human use.

\*The Buffer may vary depending on the Lot #. Please contact our technical support if you have specific requirements.

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