

Human IL-7

Human Interleukin 7, recombinant

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	1530.950.002		
10 µg	1530.950.010		
1 mg	1530.950.199		

Please enquire for bulk quantities and other vial sizes

Description

Recombinant human IL-7 is a 17.4 kDa protein containing 152 amino acid residues. IL-7 is a hematopoietic growth factor, which affects primarily early B and T cells. Produced by thymic stromal cells, spleen cells and keratinocytes, IL-7 can also co-stimulate the proliferation of mature T cells in combination with other factors such as ConA and IL-2. Human and murine IL-7 is cross-species reactive.

- **Biological Activity** $\geq 1 \times 10^6$ IU/mg.
- **Source** *E. Coli*
- **Purity** $\geq 97\%$ (SDS-PAGE, RP-HPLC)
- **Endotoxin level** ≤ 0.1 ng/µg (≤ 1 EU/µg)
- **Stabilizer** None
- **Buffer** PBS (1x), pH 7.4*
- **Physical state** Sterile filtered, lyophilized

Biological Activity

The ED₅₀ of ≤ 0.5 ng/ml was determined by its ability to stimulate the proliferation of mouse 2E8 cells. It corresponds to a specific activity of $\geq 2.0 \times 10^6$ units/mg.

Reconstitution

We recommend a quick spin followed by reconstitution in sterile-filtered water to a concentration of 0.1-1.0 mg/ml. **Do not vortex.** This solution can be stored at 2-8°C for up to 1 week. For long term storage it is recommended to add a carrier protein (0.1% HSA, order number: [2835.955.xyz](#) or [2835.958.xyz](#), or BSA, order number: [2835.919.xyz](#)) and store in working aliquots at -20°C to -80°C.

Stability

The lyophilized protein is stable at room temperature for up to 1 month, at 4°C for up to 6 months, and below -20°C until expiry date. Reconstituted protein is stable for at least 12 months when stored in working aliquots with a carrier protein at -20°C to -80°C. **Please avoid repeated freeze-thaw cycles.**

Amino Acid Sequence

DCDIEGKDGK QYESVLMVSI DQLLDMSKEI GSNCLNNEFN FFKRHICDAN KEGMFLFRAA RKLRFQFLKMN
 STGDFDLHLL KVSEGTILL NCTGQVKGRK PAALGEOPT KSLEENKSLK EQKKLNDLFC LKRLLEIQT
 CWNKILMGTK EH

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.

ORDERING
 Tel.: +49 40 43208448-0
order@active-bioscience.de
www.active-bioscience.de

TECHNICAL SUPPORT
 Tel.: +49 40 43208448-11
support@active-bioscience.de

Active Bioscience GmbH
 Oberaltenallee 8
 D-22081 Hamburg
 HRB 98170 Amtsgericht Hamburg