

RECOMBINANT HUMAN INTERLEUKIN-7

CATALOG NUMBER:	IL007	QUANTITY:	10 µg
LOT NUMBER:			
DESCRIPTION:	Interleukin-7 (IL-7) is a potent lymphoid cell growth factor which affects Pre-B, Pro-B and early T-cells. It will also affect mature T-cells in combination with other factors such as IL-2. Human IL-7 is a 17.4 kDa protein containing 152 amino acid residues.		
SOURCE:	E. coli		
PURITY:	Greater than 98% by SDS-PAGE and HPLC analyses. Endotoxin is less than 0.1 ng per µg (1EU/µg) of IL-7.		
ACTIVITY:	Human IL-7 is fully biologically active when compared to standards. The ED(50) as determined by the dose-dependent stimulation of thymidine uptake by murine IXN/2B thymocytes is ≤ 0.5 ng/mL, corresponding to a specific activity of ≥ 2 x 10 ⁶ (E6) units/mg.		
APPLICATIONS:	For most in vitro applications, IL-7 exerts its biological activity in the concentration range of 0.1 to 10.0 ng/mL. Responding cells are (partial list): Early B- and T-cells.		
PRESENTATION:	Lyophilized from 10 mM HoAc.		
STORAGE/HANDLING:	The lyophilized powder, though stable at room temperature, is best stored desiccated at -20°C. After a quick spin, reconstitute with sterile water to a concentration of 0.1–1 mg/mL. This solution can be diluted into other buffered solutions or stored at -20°C in undiluted aliquots for up to six months. Avoid repeated freeze/thaw cycles.		

Important Note: *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 µL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

For research use only; not for use as a diagnostic.

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USA & Canada • Phone: +1(800) 437-7500 • Fax: +1 (951) 676-9209 • Europe +44 (0) 23 8026 2233
Australia +61 3 9839 2000 • Germany +49-6192-207300 • ISO Registered worldwide
www.chemicon.com • custserv@chemicon.com • techserv@chemicon.com