

Recombinant Rat Interleukin-7 (IL-7)

CATALOG #:

4148-10	10 µg
4148-50	50 µg
4148-1000	1 mg

LOT #: _____

SOURCE: *E. coli*

PURITY: >98% by SDS-PAGE and HPLC analysis
Endotoxin level is <0.1 ng per µg of IL-7.

MOL. WEIGHT: 15.0 kDa

FORMULATION: Sterile filtered and lyophilized with no additives

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 µg/µl. The solution can then be diluted into other aqueous buffers and stored at 4° C for 1 week or – 20° C for future use.

STORAGE CONDITIONS:

The lyophilized IL-7 is best-stored desiccated below 0° C. Reconstituted IL-7 should be stored at working aliquots at -20° C.

DESCRIPTION:

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. Recombinant rat IL-7 is a 15.0 kDa protein containing 130 amino acid residues.

BIOLOGICAL ACTIVITY:

The ED₅₀ as determined by the dose-dependent stimulation of the proliferation of murine 2E8 cells is ≤ 2 ng/ml, corresponding to a specific activity of >5 x 10⁶ units/mg.

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