

## Recombinant Rat Interleukin 7

Cat. No. I17-174R Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant rat IL-7 is a 15.0 kDa protein containing 130 amino acid residues. It was expressed in <i>E.Coli</i> .
<b>Species</b>	Rat
<b>Source</b>	E.coli
<b>Description</b>	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.
<b>Specific Activity</b>	> 5 x 10 <sup>6</sup> units/mg.
<b>Purity</b>	> 98% by SDS-PAGE and HPLC analysis.
<b>Endotoxin Level</b>	< 0.1 ng/μg of IL-7.
<b>Stabilizer</b>	None.
<b>Formulation</b>	Lyophilized.
<b>Biological Activity</b>	The ED50 was determined by the dose-dependent stimulation of the proliferation of murine 2E8 cells is < 2.0 ng/ml, corresponding to a specific activity of > 5 x 10 <sup>6</sup> units/mg.

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**Stability**

The lyophilized protein is stable for at least 2 years from date of receipt at -20°C. Reconstituted IL-7 is stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. Avoid repeated freeze-thaw cycles.

**GENE INFORMATION**

<b>Gene Name</b>	IL7 interleukin 7 [ Rattus norvegicus ]
<b>Synonyms</b>	interleukin 7; IL7
<b>Gene ID</b>	25647
<b>mRNA Refseq</b>	NM_013110
<b>Protein Refseq</b>	NP_037242
<b>UniProt ID</b>	P56478
<b>Chromosome Location</b>	2q23
<b>Pathway</b>	Cytokine-cytokine receptor interaction; Hematopoietic cell lineage; Jak-STAT signaling pathway
<b>Function</b>	interleukin-7 receptor binding; cytokine activity; growth factor activity; protein binding

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