

Recombinant Rat Interleukin 7

Cat. No. IL7-174R Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant rat IL-7 is a 15.0 kDa protein containing 130 amino acid residues. It was expressed in <i>E. Coli</i> .
Species	Rat
Source	E.coli
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.
Specific Activity	> 5 x 10 ⁶ units/mg.
Purity	> 98% by SDS-PAGE and HPLC analysis.
Endotoxin Level	< 0.1 ng/μg of IL-7.
Stabilizer	None.
Formulation	Lyophilized.
Biological Activity	The ED ₅₀ 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 ⁶ 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

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

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