



Recombinant Human IL-7

20150227BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	100-045
Size:	10 µg
Lot. No.:	According to product label

Scientific Background

Gene-ID (NCBI):	3574
Synonyms:	IL7; IL-7

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 human IL-7 is a 17.4 kDa protein containing 153 amino acid residues.

Sequence

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MDCDIEGKDG KQYESVLMVS IDQLDSMKE IGSNCLNNEF
NFFKRHICDA NKEGMFLFRA ARKLRQFLKM NSTGDFDLHL
LKVSEGTTL LNCTGQVKGR KPAALGEAQP TKSLEENKSL
KEQKLNLDLC FLKRLLEIK TCWNKILMGT KEH
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Database References

Protein RefSeq:	NP_000871.1
Uniprot ID:	P13232
mRNA RefSeq:	NM_000880

Product Specifications

Expressed in	E. coli
Purity	> 98% by SDS-PAGE & HPLC analyses
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	153
MW:	17.4 kDa

Biological Activity: The ED50 was determined by the dose-dependent stimulation of the proliferation of murine 2E8 cells is ≤ 0.5 ng/ml, corresponding to a specific activity of $\geq 2 \times 10^6$ units/mg.



AVOID REPEATED FREEZE AND THAW CYCLES!