

## Active Recombinant Human IL7 protein

Cat. No. IL7-146H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human IL7 was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	IL7 is a secreted cytokine of the hemopoietin family that primarily affects early B and T cells and plays an important role in stimulating the proliferation of lymphoid progenitors. IL7 is produced by stromal epithelial cells of the thymus, bone marrow, and intestines. Human and murine IL7 share 60% sequence homology at the primary level and known to exhibit cross species activity. Designated CD127, the human IL7 receptor is a strongly glycosylated membrane protein of 76 kDa. Recombinant Human IL7 is a 17.7 kDa, non-glycosylated protein.
<b>Form</b>	Lyophilized from a 0.2 µm filtered solution in sodium phosphate and NaCl
<b>Bio-activity</b>	The ED50 as determined by dose-dependent stimulation of mouse lymphoma was <0.5ng/ml
<b>Molecular Mass</b>	17.7 kDa
<b>Endotoxin</b>	<1.0 EU/µg of recombinant protein as determined by the LAL method.
<b>Purity</b>	>95%

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Applications</b>	Cell Assay
<b>Storage</b>	The lyophilized protein is stable for at least one year from date of receipt at -70 centigrade. Upon reconstitution, this cytokine can be stored in working aliquots at 2 centigrade - 8 centigrade for one month, or at -20 centigrade for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.
<b>Reconstitution</b>	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.

## GENE INFORMATION

<b>Gene Name</b>	IL7 interleukin 7 [ Homo sapiens ]
<b>Official Symbol</b>	IL7
<b>Synonyms</b>	IL7; interleukin 7; interleukin-7; IL 7; IL-7;
<b>Gene ID</b>	3574
<b>mRNA Refseq</b>	NM_000880
<b>Protein Refseq</b>	NP_000871
<b>MIM</b>	146660
<b>UniProt ID</b>	P13232
<b>Chromosome Location</b>	8q12-q13
<b>Pathway</b>	Cytokine Signaling in Immune system, organism-specific biosystem; Cytokine-

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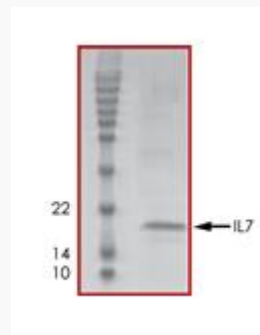
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cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Hematopoietic cell lineage, organism-specific biosystem; Hematopoietic cell lineage, conserved biosystem; Immune System, organism-specific biosystem; Interleukin-7 signaling, organism-specific biosystem;

**Function**

cytokine activity; cytokine receptor binding; growth factor activity; growth factor activity; interleukin-7 receptor binding; protein binding;



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