

## Active Recombinant Mouse IL7 Protein

Cat. No. I17-475M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Interleukin-7 Mouse Recombinant produced in E. coli is a single, non-glycosylated polypeptide chain containing 129 amino acids and having a molecular mass of 14.9 kDa.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>Description</b>	The protein encoded by this gene is a hematopoietic growth factor important for B and T cell development. Alternative splicing results in several transcript variants encoding different isoforms.
<b>Form</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Molecular Weight</b>	14.9 kDa
<b>AA Sequence</b>	ECHIKDKEGKAYESVLMISIDELDKMTGTDSNCPNNEPNFFRKHVCDTKEAAFLNR AARKLKQFLKMNISEEFNVHLLTVSQGTQTLVNCTSKEEKNVKEQKKNDACFLKRL REIKTCWNKILKGS
<b>Bio-Activity</b>	The ED50 was determined by the dose-dependent stimulation of the proliferation of murine 2E8 cells is less than 0.2 ng/mL, corresponding to a specific activity of $>5.0 \times 10^6$ IU/mg.
<b>Purity</b>	Greater than 96.0% as determined by: (a) Analysis by RP-HPLC; (b) Analysis by

 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

SDS-PAGE.

**Notes**

Our products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Solubility**

It is recommended to reconstitute the lyophilized Interleukin 7 in sterile 18 MΩ-cm H<sub>2</sub>O not less than 100 µg/mL, which can then be further diluted to other aqueous solutions.

**Stability**

Lyophilized Interleukin-7 although stable at room temperature for 3 weeks, should be stored desiccated below -18 centigrade. Upon reconstitution IL7 should be stored at 4 centigrade between 2-7 days and for future use below -18 centigrade. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Storage Buffer**

Filtered (0.2µm) and lyophilized from a concentrated (1 mg/mL) solution in 1xPBS, pH7.4 and 2% trehalose.

**Reference**

1. Disruption of Bis Leads to the Deterioration of the Vascular Niche for Hematopoietic Stem Cells. Publication: Stem Cells 28.2 (2010): 268-278.

## GENE INFORMATION

**Gene Name**

IL7 interleukin 7 [ *Mus musculus* ]

**Official Symbol**

IL7

**Synonyms**


IL7; interleukin 7; interleukin-7; Il-7; hlb368; A630026I06Rik; MGC129342

**Gene ID**

16196

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mRNA Refseq [NM\\_008371](#)

Protein Refseq [NP\\_032397](#)

UniProt ID [P10168](#)

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