

**IL-7 (Interleukin-7), Mouse**

v. 231101

<b>Catalog number</b>	C02009-5UG / C02009-20UG / C02009-100UG
<b>Package</b>	5 µg / 20 µg / 100 µg
<b>Description</b>	Interleukin 7 (IL-7) is a protein that in humans is encoded by the IL7 gene. IL-7 stimulates the differentiation of multipotent (pluripotent) hematopoietic stem cells into lymphoid progenitor cells. It is important for proliferation during certain stages of B-cell maturation, T and NK cell survival, development and homeostasis.
<b>Source</b>	<i>Escherichia coli</i>
<b>Sequence</b>	MECHIKDKEGKAYESVLMISIDELDKMTGTDSNCPNNEPNFFRKHVCDTKEA AFLNRAARKLKQFLKMNISEEFNVHLLTVSQGTQTLVNCTSKEEKNVKEQKKND ACFLKRLLEIKTCWINKILKGSi with polyhistidine tag at the C-terminus
<b>Endotoxin level</b>	<0.1 EU per 1 µg of the protein by the LAL method.
<b>Activity</b>	Measured in a cell proliferation assay using PHA-activated human peripheral blood lymphocytes (PBMC). The ED <sub>50</sub> for this effect is <0.2 ng/mL. The specific activity of recombinant mouse IL-7 is > 5 x 10 <sup>6</sup> IU/mg.
<b>Purity</b>	>98% as determined by SDS-PAGE.
<b>Form</b>	Lyophilized
<b>Storage Buffer</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
<b>Reconstitution</b>	It is recommended to reconstitute the lyophilized protein in sterile H <sub>2</sub> O to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
<b>Stability &amp; Storage</b>	This product is stable after storage at: <ul style="list-style-type: none"> <li>-20°C for 12 months in lyophilized state from date of receipt.</li> <li>-20°C or -80°C for 1 month under sterile conditions after reconstitution.</li> </ul> Avoid repeated freeze/thaw cycles.



SDS-PAGE analysis of recombinant mouse IL-7

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