

## Active Recombinant Mouse IL7 Protein, His-Tagged

Cat. No. IL7-01M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant mouse IL7 Protein, His-tagged was expressed in E. coli cell
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<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>Form</b>	Lyophilized powder
<b>AA Sequence</b>	MECHIKDKEGKAYESVLMISIDELDKMTGTDSNCPNNEPNFFRKHVCDTKEAAFLN RAARKLKQFLKMNISEEFNVHLLTVSQGTQTLVNC TSKEEKNVKEQKKNDACFLKRLREIKTCWNKILKGS I with polyhistidine tag at the C-terminus
<b>Endotoxin</b>	<0.1 EU per 1 µg of the protein by the LAL method.
<b>Bio-activity</b>	Measured in a cell proliferation assay using PHA-activated human peripheral blood lymphocytes (PBMC). The ED50 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. Ni-NTA chromatography

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<b>Storage Buffer</b>	The protein was lyophilized from a solution containing 1X 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 100 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
<b>Storage</b>	Lyophilized protein should be stored at -20°C. Upon reconstitution, protein aliquots should be stored at -20°C or -80°C.
<b>Notes</b>	Please use within one month after protein reconstitution.

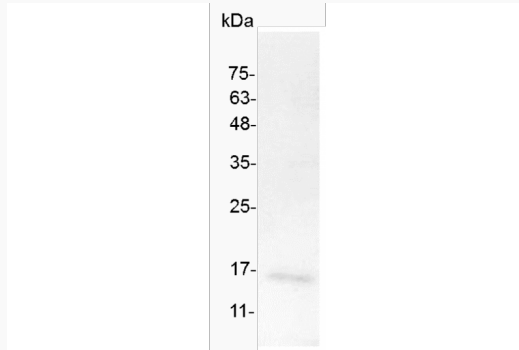
## GENE INFORMATION

<b>Gene Name</b>	Il7 interleukin 7 [ <i>Mus musculus</i> (house mouse) ]
<b>Official Symbol</b>	Il7
<b>Synonyms</b>	Il-7; hlb368; A630026I06Rik
<b>Gene ID</b>	16196
<b>mRNA Refseq</b>	NM_001313888.1
<b>Protein Refseq</b>	NP_001300817.1
<b>UniProt ID</b>	A0A8C6HCD6

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