

## Active Recombinant Rat IL7 Protein, His-tagged

Cat. No. IL7-232I Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Rat IL7 Protein with His tag was expressed in CHO.
<b>Species</b>	Rat
<b>Source</b>	CHO
<b>Description</b>	Interleukin-7 (IL-7), also known as lymphopoietin 1 and pre-B cell factor, is a hematopoietic growth factor belonging to the IL-7/IL-9 family. It is produced by keratinocytes, dendritic cells, hepatocytes, neurons and epithelial cells. IL-7 binds and signals through IL-7 receptor, a heterodimer consisting of IL-7 receptor alpha and common gamma chain receptor. IL-7 plays a role in regulating early B cell and T cell development. It is also important for optimal dendritic cell-T cell interaction.
<b>Form</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Bio-activity</b>	ED50 < 22 ng/mL, measured in a cell proliferation assay using 2E8 cells.
<b>Molecular Mass</b>	20-28 kDa, observed by reducing SDS-PAGE.
<b>AA Sequence</b>	DCHIKDKDGKAFGSVLMISINQLDKMTGTDSDCPNNEPNFFKKHLCDTKEAAFLNR AARKLRQFLKMNISEEFNDHLLRVSDGTQTLVNCTSKEEKTIKEQKKNDPCFLKRL REIKTCWINKILKGSIHSHHHHH
<b>Endotoxin</b>	< 0.2 EU/μg, determined by LAL method.

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<b>Purity</b>	> 95% as analyzed by SDS-PAGE.
<b>Storage</b>	Lyophilized recombinant rat Interleukin-7 (IL-7), His remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rat Interleukin-7 (IL-7), His should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.
<b>Storage Buffer</b>	Lyophilized after extensive dialysis against PBS.
<b>Reconstitution</b>	Reconstituted in ddH <sub>2</sub> O or PBS at 100 µg/mL.

## GENE INFORMATION

<b>Gene Name</b>	IL7 interleukin 7 [ <i>Rattus norvegicus</i> ]
<b>Official Symbol</b>	IL7
<b>Synonyms</b>	IL7; interleukin 7; interleukin-7; IL-7;
<b>Gene ID</b>	25647
<b>mRNA Refseq</b>	NM_013110
<b>Protein Refseq</b>	NP_037242
<b>UniProt ID</b>	Q91Y32

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