

## IL-7/LP-1, Human, Recombinant

Cat. No. : PCK079

### General Information

<b>Synonyms</b>	Lymphopoietin 1(LP-1);pre-B-cell factor
<b>Species</b>	Human
<b>Expression host</b>	E.coli
<b>Sequence</b>	MDCDIEGKDGKQYESVLMVSIQLLDSMKEIGSNCLNNEFNFFKRHICDANKEGMFLFRAARK LRQFLKMNSTGDFDLHLLKVSEGTTILLNCTGQVKGRKPAALGEAQPTKSLEENKSLKEQKKLN DLCFLKRLQEIKTCWNKILMGTKEH with polyhistidine tag at the C-terminus.
<b>Accession</b>	P13232.1
<b>Tag</b>	His-tag at the C-terminus
<b>Mol mass</b>	18.3 kDa
<b>Expiration date</b>	12 months
<b>Bio activity</b>	Measured in a cell proliferation assay using PHA-activated human peripheral blood lymphocytes (PBMC). The ED50 for this effect is < 0.8 ng/mL. The specific activity of recombinant human IL-7 is > 7 × 10 <sup>8</sup> IU/mg.

### Product feature

<b>Purity</b>	> 95% as determined by SDS-PAGE. Ni-NTA chromatography.
<b>Endotoxin (EU/μg)</b>	< 0.1
<b>Storage</b>	Lyophilized protein should be stored at -5~-20°C for 1 year. Upon reconstitution, store at 2-8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10% FBS, 5% HSA or 5% trehalose solution), protein aliquots should be stored at -5~-20°C or -80°C for 3-6 months.
<b>Shipping</b>	Ice bag
<b>Formulation</b>	The protein was lyophilized from a 0.2 μm filtered solution containing 1 × PBS, pH 8.0.
<b>Reconstitution</b>	It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 100 μg/mL. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

### Background

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.