

## PRODUCT INFORMATION

**Croyez GMP® IL-7 (Interleukin-7), Human**

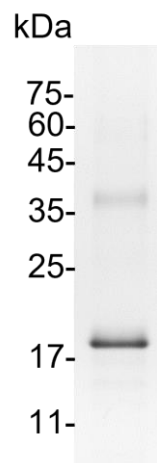
v. 230901

<b>Catalog number</b>	C01009-GMP-100 / C01009-GMP-1000
<b>Package</b>	100 µg / 1 mg
<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>Expression System</b>	<i>Escherichia coli</i>
<b>Species of Origin</b>	Human
<b>Affinity Tag</b>	His Tag (C-term)
<b>Sequence</b>	Asp26-His177
<b>Endotoxin level</b>	<0.05 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 <0.8 ng/mL. The specific activity of recombinant human IL-7 is > 7 x 10 <sup>8</sup> IU/mg.
<b>Purity</b>	>95% as determined by SDS-PAGE analysis.
<b>Mycoplasma</b>	Not detected
<b>Form</b>	Lyophilized
<b>Storage Buffer</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 8.0.
<b>Reconstitution</b>	It is recommended to reconstitute the lyophilized protein in sterile H <sub>2</sub> O to a concentration not less than 0.5 mg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
<b>Stability &amp; Storage</b>	<p>This product is stable after storage at:</p> <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> <p>Avoid repeated freeze/thaw cycles.</p>
<b>Specification</b>	<p>Croyez GMP® recombinant proteins are manufactured in ISO 13485:2016 and GMP-certified facility. The processes include:</p> <ul style="list-style-type: none"> <li>Animal-free reagent and laboratory</li> </ul>

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- Manufactured and tested under GMP guideline
  - Testing and traceability of raw material
  - Records of the maintenance and equipment calibration
  - Personnel training records
  - Batch-to-batch consistency
  - Documentation of QA control and process changes
  - Manufactured and tested under an ISO 13485:2016 certified quality management system
  - Stability monitor of product shelf-life
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#### Reference

1. Lin J. et al. (2017) Anticancer Res. 37,3: 963-967.
  2. Schluns K S. (2000) Nat Immunol. 1(5):426-32.
  3. Ceredig R, Rolink AG (2012). Semin Immunol. 24,3: 159-64.
  4. Jiang Q. et al. (2005) Cytokine Growth Factor Rev.16,4-5: 513-33.
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SDS-PAGE analysis of Croyez GMP® IL-7, Human

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*For Research Use Only. Not for use in diagnostic or therapeutic procedures.*