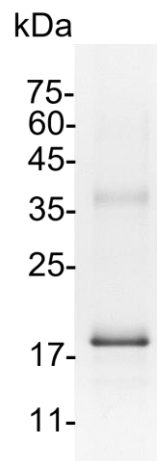


Catalog number	C01009-GMP-100 / C01009-GMP-1000
Package	100 µg / 1 mg
Description	Interleukin-7 (IL-7) is a protein that in humans is encoded by the IL7 gene. IL-7 stimulates the differentiation of multipotent (pluripotent) hematopoietic stem cells into lymphoid progenitor cells. It is important for proliferation during certain stages of B-cell maturation, T and NK cell survival, development and homeostasis.
Expression System	<i>Escherichia coli</i>
Species of Origin	Human
Affinity Tag	His Tag (C-term)
Sequence	Asp26-His177
Endotoxin level	<0.05 EU per 1 µg of the protein by the LAL method.
Activity	Measured by its ability to induce PHA-activated human PBMCs proliferation. The ED ₅₀ for this effect is <0.8 ng/mL. The specific activity of recombinant human IL-7 is > 1 x 10 ⁸ units/mg.
Purity	>97% as determined by SDS-PAGE analysis.
Mycoplasma	Not detected
Form	Lyophilized
Storage Buffer	Lyophilized from a 0.2 µm filtered solution of PBS, pH 8.0.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ 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.
Stability & Storage	<p>This product is stable after storage at:</p> <ul style="list-style-type: none"> -20°C for 12 months in lyophilized state from date of receipt. -20°C or -80°C for 1 month under sterile conditions after reconstitution. <p>Avoid repeated freeze/thaw cycles.</p>
Specification	<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"> Animal-free reagent and laboratory

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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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