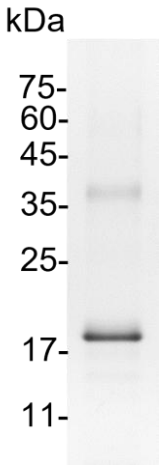
PRODUCT INFORMATION

GMP® IL-7 (Interleukin-7), Human

v. 250301

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	*Escherichia coli*
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_2O 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	This product is stable after storage at: • -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. Avoid repeated freeze/thaw cycles.
Specification	Croyez GMP® recombinant proteins are manufactured in ISO 13485:2016 and GMP-certified facility. The processes include: • Animal-free reagent and laboratory

	• 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
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.



SDS-PAGE analysis of GMP® IL-7, Human

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