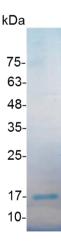
## PRODUCT INFORMATION

## Croyez GMP® IL-3 (Interleukin-3), Human

Catalog number	C01005-GMP-100 / C01005-GMP-1000
Package	100 μg / 1 mg
Description	Interleukin-3 (IL-3) is an interleukin, a type of biological signal (cytokine) that can improve the body's natural response to disease as part of the immune system. It acts by binding to the IL-3 receptor. IL-3 stimulates the differentiation of multipotent hematopoietic stem cells into myeloid progenitor cells or, with the addition of IL-7, into lymphoid progenitor cells. In addition, IL-3 stimulates proliferation of all cells in the myeloid lineage (granulocytes, monocytes, and dendritic cells), in conjunction with other cytokines, e.g., Erythropoietin (EPO), Granulocyte macrophage colony-stimulating factor (GM-CSF), and IL-6. It is secreted by basophils and activated T cells to support growth and differentiation of T cells from the bone marrow in an immune response.
Source	Escherichia coli Animal-free reagent and laboratory Manufactured and tested under GMP guideline
Sequence	MAPMTQTTSLKTSWVNCSNMIDEIITHLKQPPLPLLDFNNLNGEDQDILMENNLR RPNLEAFNRAVKSLQNASAIESILKNLLPCLPLATAAPTRHPIHIKDGDWNEFRRK LTFYLKTLENAQAQQTTLSLAIF with polyhistidine tag at the C-terminus
Endotoxin level	<0.1 EU per 1 µg of the protein by the LAL method.
Activity	Measure by its ability to induce TF-1 cells proliferation. The ED $_{50}$ for this effect is <0.15 ng/mL. The specific activity of recombinant human IL-3 is approximately >1.2 x $10^6$ IU/mg.
Purity	>98% as determined by SDS-PAGE. Purified by Ni-NTA chromatography.
Formulation	The protein was lyophilized from a solution containing 1X PBS, pH 8.0.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile $H_2O$ to a concentration not less than 100 $\mu$ g/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Storage	Lyophilized protein should be stored at -20°C. This product is stable for one year upon receipt, when handled and stored as instructed. Upon reconstitution, protein aliquots should be stored at -20°C or -80°C. Avoid repeated freeze/thaw cycles.



Note	Please use within one month after protein reconstitution.
Specification	Croyez GMP® recombinant proteins are manufactured in ISO 13485:2016 and GMP-certified facility. The processes include:  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	<ol> <li>Wagemaker G et al. (1990) Biotherapy. 2,4: 337-45.</li> <li>Guthridge MA. et al. (1998) Stem Cells. 16,5: 301-13.</li> <li>Ihle JN. (1992) Chem Immunol. 51: 65-106.</li> <li>Dougan M. et al. (2019) Immunity. 50,4: 796-811.</li> </ol>



SDS-PAGE analysis of Croyez GMP® IL-3, Human

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