

PRODUCT INFORMATION

GMP® IL-3 (Interleukin-3), Human

v. 250301

| | |
|--------------------------------|---|
| Catalog number | C01005-GMP-1000 |
| Package | 1 mg |
| Description | <p>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.</p> |
| Expression System | <i>Escherichia coli</i> |
| Species of Origin | Human |
| Affinity Tag | His Tag (C-term) |
| Sequence | Ala20-Phe152 |
| Endotoxin level | <0.05 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 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 | This product is stable after storage at: <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.
- Avoid repeated freeze/thaw cycles.
-

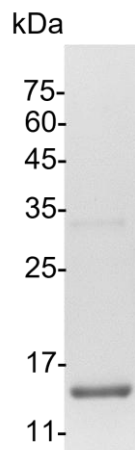
Specification

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. Wagemaker G et al. (1990) *Biotherapy*. 2,4: 337-45.
 2. Guthridge MA. et al. (1998) *Stem Cells*. 16,5: 301-13.
 3. Ihle JN. (1992) *Chem Immunol*. 51: 65-106.
 4. Dougan M. et al. (2019) *Immunity*. 50,4: 796-811.
-



SDS-PAGE analysis of GMP® IL-3, Human

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