

**HumanKine<sup>®</sup> IL-3 (Recombinant Human)**



|                       |                      |          |                |
|-----------------------|----------------------|----------|----------------|
| Animal Component-Free | Human cell expressed | Tag-Free | Endotoxin Free |
|-----------------------|----------------------|----------|----------------|

**Product Description**

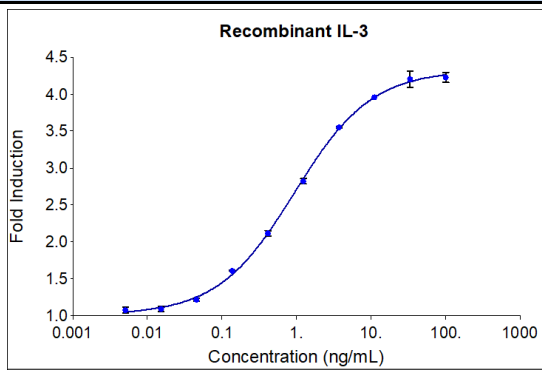
Animal-free Recombinant Human IL-3 expressed in human 293 cells is a glycosylated monomer with an apparent molecular mass of 17 to 40 kDa. This broad molecular mass is attributable to glycosylation, which is absent when this cytokine is expressed in E. coli. A hematopoietic growth factor, IL-3 promotes the survival, differentiation, and proliferation of committed progenitor cells of the megakaryocyte, granulocyte-macrophage, basophil, erythroid, eosinophil, and mast cell lineages. This cytokine can also improve the natural response to disease as part of the body's immune system.

|                    |  |
|--------------------|--|
| Alternative Names  | Hematopoietic growth factor, IL 3, IL3, IL-3, Interleukin 3, Mast cell growth factor, MCGF, MULTI CSF, P cell stimulating factor |
| Source             | Human Embryonic Kidney cells (HEK293). HEK293-derived IL-3 protein   |
| Species Reactivity | human  |

**Specifications**

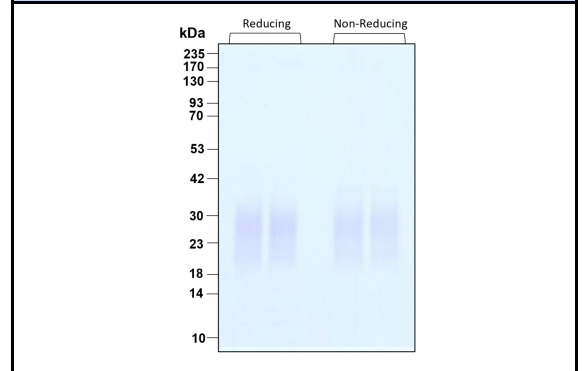
| Test           | Method  | Specification                       |
|----------------|---|-------------------------------------|
| Activity       | Dose-dependent stimulation of the proliferation of human TF-1 cells (human erythroleukemic indicator cell line) | 0.4-2.0 ng/mL EC50                  |
| Molecular Mass | SDS-PAGE  | 17 to 40 kDa, monomer, glycosylated |
| Purity         | SDS-PAGE  | >95%                                |
| Endotoxin      | LAL   | <1 EU/μg                            |

**Activity Data**



Recombinant human IL-3 (HZ-1074) stimulates dose-dependent proliferation of the TF-1 human erythroleukemic indicator cell line. Cell number was quantitatively assessed by PrestoBlue<sup>®</sup> Cell Viability Reagent. TF-1 cells were treated with increasing concentrations of recombinant IL-3 for 72 hours. The EC50 was determined using a 4-parameter non-linear

**SDS-PAGE**



| Preparation          |  |
|----------------------|--|
| Shipping Temperature | ambient temperature  |
| Formulation          | 1xPBS, See Certificate of Analysis for details   |
| Reconstitution       | Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile 1xPBS pH 7.4. |

| Stability and Storage              | Product Form              | Temperature Conditions | Storage Time<br>(From Date of Receipt) |
|------------------------------------|---------------------------|------------------------|--|
|                                    | Lyophilized               | -20°C to -80°C         | Until Expiry Date                      |
|                                    | Lyophilized               | Room Temperature       | 2 weeks                                |
|                                    | Reconstituted as per CofA | -20°C to -80°C         | 6 months                               |
|                                    | Reconstituted as per CofA | 4°C                    | 1 week                                 |
| Avoid repeated freeze-thaw cycles. |                           |                        |  |

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