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**RECOMBINANT HUMAN IL-3 ACF**



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# RECOMBINANT HUMAN IL-3 ACF

Catalog No. 95113

## INTENDED USE

Recombinant human IL-3 is a carrier-free, animal component-free bioactive recombinant cytokine intended for use in cell culture applications. IL-3 is involved in a variety of cell activities such as cell growth, differentiation and apoptosis.

## PRODUCT DESCRIPTION

- Synonyms**  
MCGF, Multi-CSF, HCGF, P-cell stimulation factor.
- Accession Number**  
P08700
- Background**  
IL-3 is a pleiotropic cytokine produced primarily by activated T-cells, but it is also produced by mast cells and monocytes. IL-3 supports the proliferation and development of a wide range of hematopoietic progenitor cells, as well as the differentiation of early non lineage-committed hematopoietic progenitors into colonies of granulocytes, macrophages, erythroid cells, megakaryocytes, and mast cells (1-4). Recombinant human IL-3 is a non-glycosylated protein, containing 133 amino acids, with a molecular weight of 15 kDa.

- Specifications**

### **Formulation**

Recombinant human IL-3 is lyophilized with no additives.

### **Protein content and Purity**

≥95% determined by HPLC, reducing and non reducing SDS-PAGE analysis, UV spectroscopy.

### **Bioactivity**

ED<sub>50</sub> is determined by a dose dependent proliferation of human TF1 cells (5). The ED<sub>50</sub> is typically less than 20 ng/mL.

### **Quality and Grade**

Carrier-free. Animal component-free.

## SHIPPING

This product is shipped at ambient temperature. Immediately upon receipt, store at the recommended temperature below.

## STORAGE INSTRUCTIONS AND STABILITY

Upon receipt, store the lyophilized protein at or below -10°C in a manual defrost freezer for up to 12 months from date of receipt. Unopened vials are stable for one year from the date of receipt when stored as recommended. Reconstituted material should be apportioned in working volumes and stored at or below -10°C in manual defrost freezer. Reconstituted material is stable for 4-6 weeks when stored at or below -10°C and for 3-12 months at -80°C. Stability can be increased by adding at least 0.1% of carrier protein.

## PRECAUTIONS AND WARNINGS

This product is for research or further manufacturing use only. It is not for use in diagnostic procedures. The safety and efficacy of this product in diagnostic or other clinical procedures has not been established.

## DIRECTIONS FOR USE

- Reconstitution**  
Centrifuge vials before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water, which can be further diluted into other aqueous solutions.
- Optimum concentration**  
The optimum concentration varies depending on cell type and culture conditions. Working concentration should be determined for each specific application.

## REFERENCES

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