

Recombinant Human Interleukin-3 (rHu IL-3)

Lyophilized (10 µg) Cat # AK9836-0010 | Lyophilized (100 µg) Cat # AK9836-0100

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Product Description:

Akron's Recombinant Human Interleukin-3 (rHu IL-3) product is manufactured following all relevant cGMP guidelines for ancillary materials. Akron's rHu IL-3 is a single chain, approximately 20 kDa, glycosylated cytokine analog expressed in Yeast. The lyophilized product is packaged into vials. *In vivo*, IL-3 is largely produced by activated T cells and interacts with a diverse set of hematopoietic cell types, inducing proliferation and differentiation of stem cells and numerous progenitor types. The IL-3 receptor protein shares an identical subunit as the IL-5, and granulocyte-macrophage colony-stimulating factor (GM-CSF) receptor proteins. Akron's cGMP-compliant rHu IL-3 can be used to promote the *ex vivo* activation, differentiation, and proliferation of T cells, myeloid progenitor cells, lymphoid progenitor cells, granulocytes, monocytes, dendritic cells, and megakaryocytes.

Product Features:

Active Substance

- Negligible BSE/TSE risk from all media components
- Low Endotoxin (< 1 EU/µg)
- High Purity (≥ 97%)

Manufacturing

- Yeast expression system
- Tag-free purification

Quality

- Relevant cGMP guidelines used in manufacture, testing, and release
- USP <1043>, Ancillary Materials for Cell, Gene, and Tissue-Engineered Products
- ISO 13485:2016, Medical Devices - Quality Management Systems - Requirements for Regulatory Purposes
- ISO/TS 20399-1-3:2018, Biotechnology - Ancillary Materials Present During the Production of Cellular Therapeutic Products

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Release Testing:

- Appearance
- pH
- Host Cell Protein
- Specific Activity
- Purity
- Bacterial Endotoxins

Stability:

- 36-month shelf life
- Store at -20 °C
- Transport with cold packs

Reconstitution:

Reconstitute the lyophilized product with 0.2 mL of sterile water. This reconstituted solution can be stored at 2 °C to 8 °C for one month and at -20 °C for three months without loss of activity. Avoid repeated freeze thaw cycles.

For Use Statement:

For research use or further manufacturing use in *ex vivo* cell therapy applications only. This product is not intended for direct *in vivo* use or for direct clinical use as a drug, therapeutic, biologic, or medical device.

Related Products:

Catalog Number	Product Name	Size
AK9841-0100	Recombinant Human Interleukin-6 (rHu IL-6)	100 µg
AK9879-0100	Recombinant Human Stem Cell Factor (rHu SCF)	100 µg
AK9842-0040	Recombinant Human Interleukin-7 (rHu IL-7)	40 µg
AK9941-0040	Recombinant Human Erythropoietin (rHu EPO)	40,000 IU
AK8341-0150	Recombinant Human Granulocyte Macrophage-Colony Stimulating Factor (rHu GM-CSF)	150 µg

For more information on our available products or for technical assistance, see contact info below.
For contract orders under master supply agreement, please inquire.