

Recombinant Human Interleukin-6 (rHu IL-6)

Lyophilized (10 µg) Cat # AK9841-0010 | Lyophilized (100 µg) Cat # AK9841-0100

P 1

Product Description:

Akron's Recombinant Human Interleukin-6 (rHu IL-6) product is manufactured following all relevant cGMP guidelines for ancillary materials. Akron's rHu IL-6 is a single chain, 30 kDa, non-glycosylated cytokine analog expressed in *E. coli*, containing 184 amino acids. The lyophilized product is packaged into vials. *In vivo*, IL-6 both upregulates and downregulates inflammation and is an important mediator of fever and the acute phase response. It is produced by many diverse cell types in the body, including muscle and bone cells, and is involved in central nervous system functions. Akron's cGMP-compliant rHu IL-6 can be used to stimulate the production of hematopoietic stem and progenitor cells (HSC/HPC), human umbilical cord-mesenchymal stem cells (MSC), neurons, neutrophils, B cells, T cells, and control the function of various nonimmune cells.

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
- All raw materials are compliant, controlled, and traceable under Akron's Quality Management System (QMS)

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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P 2

Release Testing:

- Appearance
- Specific Activity
- Purity (Non-Reducing SDS-PAGE)
- Purity (Reducing SDS-PAGE)
- 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
AK8223-0100	Recombinant Human Interleukin-2 (rHu IL-2)	100 µg
AK9842-0040	Recombinant Human Interleukin-7 (rHu IL-7)	40 µg
AK9823-0040	Recombinant Human Interleukin-15 (rHu IL-15)	40 µg
AK9833-0040	Recombinant Human Interleukin-21 (rHu IL-21)	40 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.