

PRODUCT PAGE

Recombinant Human Interleukin-15 (rHu IL-15)

Lyophilized (40 µg) Cat. # AK9823-0040

Product Description:

Akron's Recombinant Human Interleukin-15 (rHu IL-15) is manufactured following all relevant cGMP guidelines for ancillary materials and is supported by a Type II Master File (MF), which can be referenced by the FDA during your drug or biologic application process. Akron's rHu IL-15 is a single chain, 13 kDa, non-glycosylated cytokine analog expressed in *E. coli,* containing 115 amino acids. It is purified in a pharmaceutical facility without the use of histidine tags and nickel columns. Sterile filtration with aseptic filling and lyophilization are performed in-house with Endotoxin and Sterility testing performed per USP/EP on the final product; the lyophilized product is packaged in sterile vials.

IL-15 is notable in that it shares several functions attributed to IL-2, including stimulating the proliferation of several types of T cells, augmenting the proliferation of certain B cells, and stimulating the generation, proliferation, and activation of NK cells. These shared functions are due to the great similarity between the IL-15 and IL-2 trimeric receptor proteins (which share 2 out of their 3 subunits) and the shared use of certain signal transduction mechanisms. Furthermore, IL-15 plays a unique role in the protection of neutrophils from apoptosis and the stimulation of critical protein expression in dendritic cells. Its potential therapeutic use in the treatment of cancer is a focus of ongoing investigation with a promising safety and efficacy profile. Akron's cGMP-compliant rHu IL-15 can be used to promote the activation and differentiation of CAR-T cells, TCR-T cells, Tregs, TILs, NK cells, NKTs, and Th17 cells.

Product Features:

Active Substance

- Carrier protein-free formulation
- E. coli expression system
- All raw materials are compliant, controlled, and traceable under Akron's Quality Management System (QMS)

Manufacturing

- Type II eCTD MF (#026085) on file with FDA
- Tag-free pharmaceutical processing
- Gram-scale production capacity
- In-house sterile filtration with aseptic filling and lyophilization

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Quality

- Relevant cGMP guidelines used in manufacture, testing, and release
- USP <1043>, Ancillary Materials for Cell, Gene, and Tissue-Engineered Products
- EP 5.2.12, Raw Materials of Biological Origin for the Production of Cell-based and Gene Therapy Medicinal 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
- High Purity, Low Endotoxin Endotoxin and Sterility testing per USP

Release Testing:

- Appearance (Visual)
- pH (Potentiometric)
- Residual Moisture (Karl Fischer)
- Specific Activity (CTLL-2 Proliferation)
- Biological Activity (CTLL-2 Proliferation)
- Molecular Weight (SDS-PAGE)

- Western Blot
- Purity (Non-reducing SDS-PAGE)
- Host cell-derived Proteins (ELISA)
- Bacterial Endotoxins (USP <85> / EP 2.6.14)
- Sterility (USP <71> / EP 2.6.1)

Stability:

- 24-month shelf life
- Store at 2-8 °C
- Transport with cold packs

Reconstitution:

Reconstitute with water for injection (WFI). Product is fully soluble in aqueous solution at 0.1 mg/mL.

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.





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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
AK9833-0040	Recombinant Human Interleukin-21 (rHu IL-21)	40 µg
AK9823-0020	Recombinant Human Interleukin-12 (rHu IL-12)	20 µg
AK9999-0025	Recombinant Human Interleukin-18 (rHu IL-18)	25 µg

Purity Data:



Fig.1 Non-reducing SDS-PAGE, Silver Stained

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