

Recombinant Human Stem Cell Factor (rHu SCF)

Lyophilized (100 µg) Cat # AK9879-0100 | Lyophilized (1 mg) Cat # AK9879-1000

P 1

Product Description:

Akron's Recombinant Human Stem Cell Factor (rHu SCF) product is manufactured following all relevant cGMP guidelines for ancillary materials. Akron's rHu SCF is a single chain, approximately 20 kDa, glycosylated cytokine analog expressed in Yeast, containing 165 amino acids. It is purified without the use of His-tags and the lyophilized product is packaged into vials available in 100 µg and 1 mg aliquots.

In vivo, SCF is critical to the regulation of hematopoietic stem cells (HSCs) and plays a key role during fetal development. Akron's cGMP-compliant rHu rHu SCF can be used to promote the *ex vivo* expansion of HSCs and various hematopoietic progenitor 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

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

Release Testing:

- Appearance
- pH
- Specific Activity
- Purity (Non-Reducing SDS-PAGE)
- Purity (Reducing SDS-PAGE)
- Purity (HPLC)
- Host Cell Derived Proteins
- Bacterial Endotoxins



Recombinant Human Stem Cell Factor (rHu SCF)

Lyophilized (100 µg) Cat # AK9879-0100 | Lyophilized (1 mg) Cat # AK9879-1000

P 2

Stability:

- 36-month shelf life for 100 µg (AK9879-0100)
- 18-month shelf life for 1 mg (AK9879-1000)
- Store at -20 °C
- Transport on cold packs

Reconstitution:

AK9879-0100: Reconstitute the 100 µg lyophilized product in 0.2 mL of sterile water.

AK9879-1000: Reconstitute the 1 mg lyophilized product in 0.5 mL of sterile water.

For Use Statement:

For research use or further manufacturing use in *ex vivo* cell therapy applications. 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
AK9836-0100	Recombinant Human Interleukin-3 (rHu IL-3)	100 µg
AK9841-0100	Recombinant Human Interleukin-6 (rHu IL-6)	100 µg
AK8248-0300	Recombinant Human Granulocyte-Colony Stimulating Factor (rHu G-CSF) Solution	300 µg
AK8341-0150	Recombinant Human Granulocyte Macrophage-Colony Stimulating Factor (rHu GM-CSF)	150µg

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