



Recombinant Human Basic Fibroblast Growth Factor-155 (rHu bFGF-155)

Vials (100 µg) Cat # AK9784-0100

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Product Description:

Akron's Recombinant Human Basic Fibroblast Growth Factor-155 (rHu bFGF-155) product is manufactured following all relevant cGMP guidelines for ancillary materials. Our bFGF-155 is a single, non-glycosylated, polypeptide chain containing 155 amino acids and having a molecular mass of around 17.4 kDa, expressed in *E. coli*. 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 vials and available in 100 µg aliquots as listed above.

FGF2 plays a significant role in wound healing, it is a potent inducer of angiogenesis and it is essential for the growth of many stem and progenitor cells. It shares a 55% amino acid residue identity with FGF1 and interacts with heparin sulfate with nanomolar affinity. FGF2 is a potent inducer of DNA synthesis in a variety of cell types. Akron's cGMP-compliant rHu FGF can be used to promote the activation and proliferation of hematopoietic progenitor cells, peripheral neuron cells, hepatocytes, and mesenchymal cells.

Product Features:

Manufacturing

- Expressed in *E. coli*
- Animal-derived component free
- Tag-free pharmaceutical biosimilar processing
- In-house sterile filtration with aseptic filling and lyophilization
- 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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Release Testing:

- Appearance
- pH
- Residual Moisture
- Protein Content
- Molecular Weight
- Purity
- Specific Activity
- Biological Activity
- Bacterial Endotoxins
- Sterility

Stability:

- Currently on a long-term stability program
- Store at 2-8 °C
- Transport on cold packs

Reconstitution:

Reconstitute the lyophilized product with 1 mL of sterile water for injection (WFI).

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
AK9797-0100	Recombinant Human Epidermal Growth Factor (rHu EGF)	100 µg
AK9711-1000	Recombinant Human Platelet Derived Growth Factor-AA (rHu PDGF-AA)	1 mg
AK8274-0100	Recombinant Human Platelet Derived Growth Factor-BB (rHu PDGF-BB)	100 µg
AK8274-1000	Recombinant Human Platelet Derived Growth Factor-BB (rHu PDGF-BB)	1 mg

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