

## Recombinant Human Platelet Derived Growth Factor-BB (rHu PDGF-BB)

Lyophilized (100 µg) Cat # AK8274-0010 | Lyophilized (1 mg) Cat # AK8274-1000

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### Product Description:

Akron's Recombinant Human Platelet Derived Growth Factor-BB (rHu PDGF-BB) product is manufactured following all relevant cGMP guidelines for ancillary materials. Akron's rHu PDGF-BB is a homo-dimeric, approximately 25 kDa, glycosylated growth factor analog expressed in Yeast. The lyophilized product is packaged into vials. *In vivo*, PDGF-BB is part of the PDGF family, consisting of various dimers that have similar functions. PDGFs play an important role during embryonic development, stimulating and controlling the populations of mesenchymal stem cells (MSCs) and their progenitors. They have also been shown to affect osteogenic differentiation and proliferation of oligodendrocytes. PDGF functions have overlap with vascular endothelial growth factors (VEGFs) and epidermal growth factor (EGF). It has been used to study and develop technology in tissue regeneration and wound repair. Akron's cGMP-compliant rHu PDGF-BB can be used to promote the *ex vivo* expansion of MSCs and various mesenchymal progenitor cells.

### Product Features:

#### Manufacturing

- Yeast expression system
- Tag-free purification
- Animal-derived component free
- 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

### Release Testing:

- Appearance (Visual)
- Protein Content (Bradford Assay)
- Purity (Reducing SDS-PAGE)
- Purity (Non-Reducing SDS-PAGE)
- Biological Activity (Swiss Mouse 3T3 fibroblast assay)
- Bacterial Endotoxins (USP <85> / EP 2.6.14)
- Bioburden (USP <61> / EP 2.6.12)



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### Stability:

- Currently under long-term stability program
- Store at -20 °C
- Ships on Dry Ice

### Reconstitution:

Reconstitute the lyophilized product in sterile water to a concentration of 0.1-1.0 mg/mL. Avoid multiple freeze-thaw cycles.

### 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
AK9711-1000	Recombinant Human Platelet Derived Growth Factor-AA (rHu PDGF-AA)	1 mg
AK9797-0100	Recombinant Human Epidermal Growth Factor (rHu EGF)	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)	150 µg
AK9884-0100	Recombinant Human Transforming Growth Factor-beta 1 (rHu TGF-β 1)	100 µg
AK9784-0100	Recombinant Human Basic Fibroblast Growth Factor-155 (rHu bFGF-155)	100 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.