

# Active Recombinant Human PDGFCC Protein

**Cat. No.** PDGFC-167P    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human PDGFCC Protein without tag was expressed in HEK 293.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>      | Platelet-Derived Growth Factor (PDGF) is a potent mitogen for a wide range of cell types including fibroblasts, smooth muscle, connective tissue, bone and cartilage cells, and some blood cells. The PDGF is involved in a number of biological processes, including hyperplasia, chemotaxis, embryonic neuron development, and respiratory tubule epithelial cell development. The PDGF family consists of proteins derived from four genes (PDGF -A, -B, -C, and -D) that form four disulfide-linked homodimers (PDGF-AA, -BB, -CC, and -DD) and one heterodimer (PDGF-AB). |
| <b>Form</b>             | Sterile Filtered White lyophilized (freeze-dried) powder.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Bio-activity</b>     | ED50 < 1 ng/mL, measured in a cell proliferation assay using 3T3 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Molecular Mass</b>   | 15~19 kDa, observed by reducing SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>AA Sequence</b>      | VVDLNNLLTEEVRLYSCTPRNFSVSIREELKRTDTIFWPGCLLVKRCGGNCACCLHNC<br>NECQCVPSKVTKKYHEVLQLRPKTGVRGLHKSLTDVALEHHEECDVCVCRGSTGG                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Endotoxin</b>        | < 0.2 EU/μg, determined by LAL method.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

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|                       |                                                                                                                                                                                                                                                                                                       |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 95% as analyzed by SDS-PAGE.                                                                                                                                                                                                                                                                        |
| <b>Storage</b>        | Lyophilized recombinant Human Platelet-derived growth factor (PDGF) -CC remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, Human Platelet-derived growth factor (PDGF) -CC should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade. |
| <b>Storage Buffer</b> | Lyophilized after extensive dialysis against PBS.                                                                                                                                                                                                                                                     |
| <b>Reconstitution</b> | Reconstituted in ddH <sub>2</sub> O or PBS at 100 µg/mL.                                                                                                                                                                                                                                              |

## GENE INFORMATION

|                        |                                                                                                                                                                                                  |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | PDGFC platelet derived growth factor C [ Homo sapiens ]                                                                                                                                          |
| <b>Official Symbol</b> | PDGFC                                                                                                                                                                                            |
| <b>Synonyms</b>        | PDGFC; platelet derived growth factor C; platelet-derived growth factor C; fallotein; SCDGF; PDGF-C; VEGF-E; spinal cord-derived growth factor; secretory growth factor-like protein; FALLOTEIN; |
| <b>Gene ID</b>         | 56034                                                                                                                                                                                            |
| <b>mRNA Refseq</b>     | NM_016205                                                                                                                                                                                        |
| <b>Protein Refseq</b>  | NP_057289                                                                                                                                                                                        |
| <b>MIM</b>             | 608452                                                                                                                                                                                           |
| <b>UniProt ID</b>      | Q9NRA1                                                                                                                                                                                           |

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