

## PDGF CC active protein

PDGF CC protein

|                              |                      |
|------------------------------|----------------------|
| CATALOG #<br><b>AAA75572</b> | HOST<br><b>Human</b> |
|------------------------------|----------------------|

### PRODUCT SYNONYMS

PDGF CC; PDGF CC protein; Osteosarcoma-derived Growth Factor protein; Platelet-Derived Growth Factor-CC protein; ODGF protein; Glioma-derived growth factor protein; PCGF protein; GDGF protein; PDGF CC active protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Purity/Purification     | > 98% pure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Form/Format             | Supplied as a lyophilized powder.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Sequence                | Region of PDGFCC protein corresponds to amino acids MVVD LNLLEEVRL YSCTPRNFSV SIREELKRTD TIFWPGCLLV KRCGGNCACC LHNCNECQCV PSKVTKKYHE VLQLRPKTGV RGLHKS LTDV ALEHHEECDC VCRGSTGG.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Sequence Length         | 345                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Protein Type            | Recombinant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Biological Significance | The platelet-derived growth factor (PDGF) family of heparin-binding growth factors consists of five known members, denoted PDGF-AA, PDGF-BB, PDGF-AB, PDGF-CC and PDGF-DD. The mature and active form of these proteins, an anti-parallel disulfide-linked dimer of two 12-14 kDa polypeptide chains, is obtained through proteolytic processing of biologically inactive precursor proteins, which contain an N-terminal CUB domain and a PDGF/VEGF homologous domain. The PDGFs interact with two related protein tyrosine kinase receptors, PDGFR- $\alpha$ and PDGFR- $\beta$ , and are potent mitogens for a variety of cell types, including smooth muscle cells, connective tissue cells, bone and cartilage cells, and certain tumor cells. |
| Bioactivity             | Determined by the dose-dependent stimulation of the proliferation of Balb/c 3T3 cells. The expected ED <sub>50</sub> for this effect is 15-20 ng/ml.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Endotoxin Levels        | Endotoxin level is less than 0.1 ng per $\mu$ g (1 EU/ $\mu$ g).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Expression System       | E Coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Preparation and Storage | Store at 4 degree C until reconstitution. Following reconstitution aliquot and freeze at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

### ADDITIONAL INFORMATION

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|--------------------------------------------------------|------------------------------------------------|
| Related Product Information for PDGF CC active protein | Purified recombinant Human PDGF CC protein     |
| Product Categories/Family for PDGF CC active protein   | <a href="#">Cytokines &amp; Growth Factors</a> |

### NCBI AND UNIPROT INFORMATION

|             |                           |
|-------------|---------------------------|
| NCBI GI #   | <a href="#">205830662</a> |
| NCBI GeneID | <a href="#">56034</a>     |

|                                  |                                                                      |
|----------------------------------|----------------------------------------------------------------------|
| Molecular Weight                 | 20,609 Da                                                            |
| NCBI Official Full Name          | Platelet-derived growth factor C                                     |
| NCBI Official Synonym Full Names | platelet derived growth factor C                                     |
| NCBI Official Symbol             | PDGFC                                                                |
| NCBI Official Synonym Symbols    | SCDGF; FALLOTEIN                                                     |
| NCBI Protein Information         | platelet-derived growth factor C                                     |
| UniProt Protein Name             | Platelet-derived growth factor C                                     |
| UniProt Gene Name                | <b>PDGFC</b>                                                         |
| UniProt Synonym Gene Names       | SCDGF; PDGF-C; SCDGF; PDGFC latent form; PDGFC receptor-binding form |
| UniProt Entry Name               | PDGFC_HUMAN                                                          |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-active-protein/pdgf-cc/75572>