

## Human PDGF-AA

Synonyms: PDGFA, PDGF1, PDGF-A

**PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING**

Size	Order #	Lot #	Expiry Date
5 µg	1800.950.005		
10 µg	1800.950.010		
50 µg	1800.950.050		
100 µg	1800.950.100		
500 µg	1800.950.500		
1 mg	1800.950.199		

Please enquire for bulk quantities and other vial sizes

### Description

PDGFs are disulfide-linked dimers consisting of two 12.0-13.5 kDa polypeptide chains, designated PDGF-A and PDGF-B chains. The three naturally occurring PDGFs; PDGF-AA, PDGF-BB and PDGF-AB, are potent mitogens for a variety of cell types including smooth muscle cells, connective tissue cells, bone and cartilage cells, and some blood cells. The PDGFs are stored in platelet alpha-granules and are released upon platelet activation. The PDGFs are involved in a number of biological processes, including hyperplasia, chemotaxis, embryonic neuron development, and respiratory tubule epithelial cell development. Two distinct signaling receptors used by PDGFs have been identified and named PDGFR-alpha and PDGFR-beta. PDGFR-alpha is high-affinity receptor for each of the three PDGF forms. On the other hand, PDGFR-beta interacts with only PDGF-BB and PDGF-AB. Recombinant human PDGF-AA is a 28.5 kDa disulfide-linked homodimer of two A chains (250 total amino acids).

- **Source** *E. Coli*
- **Purity** ≥ 95 % (SDS-PAGE, silver stained)
- **Endotoxin level** < 0.1 ng per µg of PDGF-AA

### Biological Activity

The biological activity was determined by the induction of proliferation in NHDF cells (Normal Human Dermal Fibroblasts).

### Reconstitution

Centrifuge vial prior to opening. The lyophilized PDGF-AA should be reconstituted in water to a concentration not lower than 50 µg/ml. For long term storage we recommend to add at least 0.1% human or bovine serum albumin.

### Amino Acid Sequence

aa21toaa33

**Usage:** For research use only. Not for use in diagnostic or therapeutic procedures. Not for human use.

\*The Buffer may vary depending on the Lot #. Please contact our technical support if you have specific requirements.

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