

## 32-1652: PDGF AA Recombinant Protein

**Alternative Name :** Glioma-derived growth factor, GDGF, Osteosarcoma-derived Growth Factor, ODGF, PDGF-AA, PDGF-1.

### Description

Source : Escherichia Coli. Platelet-Derived Growth Factor AA Human Recombinant is a homodimeric, non-glycosylated, polypeptide chain containing 2 x 125 amino acids and having a total molecular mass of 28511 Dalton. PDGF-AA is purified by proprietary chromatographic techniques. 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 PDGF is stored in platelet alpha-granules and released upon platelet activation. The PDGF is 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 PDGF 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.

### Product Info

<b>Amount :</b>	10 µg
<b>Purification :</b>	Greater than 95.0% as determined by SDS-PAGE.
<b>Content :</b>	Lyophilized without any additives.
<b>Storage condition :</b>	Lyophilized Platelet-Derived Growth Factor AA although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution PDGF-AA should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
<b>Amino Acid :</b>	SIEEAVPAVC KTRTVIYEIP RSQVDPTSAN FLIWPPCDEV KRCTGCCNTS SVKCQPSRVH HRSVKVAKVE YVRKKPKLKE VQVRLEEHL CACATTSNLP DYREEDTGRP RESGKKRKRK RLKPT.

### Application Note

It is recommended to reconstitute the lyophilized Platelet-derived Growth Factor-AA in sterile 18MΩ·cm H<sub>2</sub>O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions. The ED<sub>50</sub>, calculated by the dose-dependent proliferation of murine 3T3 indicator cells is < 0.32ng/ml, corresponding to a Specific Activity of 3,125x10<sup>3</sup>units/mg.

