

## 32-1656: mPDGF AA Recombinant Protein

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

### Description

Source : Escherichia Coli. PDGF-AA Mouse Recombinant is a disulfide linked homodimeric, non-glycosylated, polypeptide chain containing 2 x 126 amino acids and having a total molecular mass of 28.9 kDa. 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 97.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
<b>Content :</b>	The protein was lyophilized with no additives.
<b>Storage condition :</b>	Lyophilized PDGF-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>	MSIEEAVPAV CKTRTVIYEI PRSQVDPTSA NFLIWPPCVE VKRCTGCCNT SSVKCQPSRV HHRSVKVAKV EYVRKKPKLK EVQVRLEEHL ECACATSNLN PDHREEETGR RRESGKNRKR KRLKPT.

### Application Note

It is recommended to reconstitute the lyophilized PDGF-AA in sterile 18M $\Omega$ -cm H<sub>2</sub>O at a concentration ranging between 0.1-0.5mg per 1ml, which can then be further diluted to other aqueous solutions. Established by the dose-dependent stimulation of Balb/c 3T3 cells proliferation. The expected ED50 for this effect is 8-10 ng/ml corresponding to a specific activity of 100,000-125,000IU/mg.

