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**Product Data Sheet**


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Product Name: PDGF AA Mouse

Cat. No.: GP20813

Batch No.: 1

**Product Data**

Purity	Greater than 95.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.	Source	Escherichia Coli.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.	Shipping Condition	Shipped at Room temp.
Synonyms	Glioma-derived growth factor; GDGF; Osteosarcoma-derived Growth Factor; ODGF; PDGF-AA; PDGF-1.		
Amino Acid Sequence	MSIEEAVPAV CKTRTVIYEI PRSQVDPTSA NFLIWPPCVE VKRCTGCCNT SSVKQCPSRV HHRSVKVAKV EYVRKKPKLK EVQVRLEEHL ECACATSNLN PDHREEETGR RRESGKNRKR KRLKPT.		
Solubility	It is recommended to reconstitute the lyophilized PDGF-AA in sterile 18MΩ-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.		
Formulation	The protein was lyophilized with no additives.		

**Introduction**

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.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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### Biological Activity

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.

### Stability

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.

### Background

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.

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