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## Product Data Sheet

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Product Name: PDGF AA Human

Cat. No.: GP20810

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Glioma-derived growth factor; GDGF; Osteosarcoma-derived Growth Factor; ODGF; PDGF-AA; PDGF-1.		
Amino Acid Sequence	SIEEAVPAVC KTRTVIYEIP RSQVDPTSAN FLIWPPCVEV KRCTGCCNTS SVKQCPSRVH HRSVKVAKVE YVRKKPKLKE VQVRLEEHL E CACATTSLNP DYREEDTGRP RESGKKRKRK RLKPT.		
Solubility	It is recommended to reconstitute the lyophilized Platelet-derived Growth Factor-AA in sterile 18MΩ-cm H <sub>2</sub> O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized without any 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.

**Biological Activity**

The ED50, 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.

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

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### Stability

Lyophilized Platelet-Derived Growth Factor AA although stable at room temperature for 3 weeks, should be stored desiccated below  $-18^{\circ}\text{C}$ . Upon reconstitution PDGF-AA should be stored at  $4^{\circ}\text{C}$  between 2-7 days and for future use below  $-18^{\circ}\text{C}$ . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Background

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.

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