



## Product Datasheet

<b>Product Name</b>	Platelet-derived Growth Factor AA Mouse Recombinant
<b>Cata No</b>	CB501324
<b>Source</b>	<i>Escherichia Coli</i> .
<b>Synonyms</b>	Glioma-derived growth factor, GDGF, Osteosarcoma-derived Growth Factor, ODGF, PDGF-AA, PDGF-1.

### Description

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.

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.

### Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

### Biological Activity

Established by the dose-dependent stimulation of Balb/c 3T3 cells proliferation. The expected ED<sub>50</sub> for this effect is 8-10 ng/ml.

### Purity

Greater than 97.0% as determined by:  
(a) Analysis by RP-HPLC.  
(b) Analysis by SDS-PAGE.

### Formulation

The protein was lyophilized with no additives.

### Reconstitution

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.

### 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.**

### Sequence

MSIEEAVPAV CKTRTVIYEI PRSQVDPTSA  
NFLIWPPCVE VKRCTGCCNT SSVKQCPSRV  
HHRSVKVAKV EYVRKKPKLK EVQVRLEEHL  
ECACATSNLN PDHREEETGR RRESGKNRKR  
KRLKPT.

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