

**Recombinant Murine PDGF-AA**  
Catalog # PBG10354**Specification**

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**Recombinant Murine PDGF-AA - Product Information****Recombinant Murine PDGF-AA - Additional Information****Description**

PDGFs are disulfide-linked dimers consisting of two 12.0-13.5 kDa polypeptide chains, designated PDGF-A and PDGF-B chains. The three naturally occurring PDGFs; 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 PDGFs are stored in platelet  $\alpha$ -granules and are released upon platelet activation. The PDGFs are 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 PDGFs 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. Recombinant murine PDGF-AA is a 28.7 kDa disulfide-linked homodimer of two A chains (250 total amino acids).

**Biological Activity**

Determined by the dose-dependent stimulation of the proliferation of Balb/c 3T3 cells. The expected  $ED_{50}$  for this effect is 8-10 ng/ml.

**Authenticity**

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

**Endotoxin**

Endotoxin level is  $<0.1$  ng/  $\mu$ g of protein ( $<1$ EU/  $\mu$ g).

**Protein Content**

Verified by UV Spectroscopy and/or SDS-PAGE gel.

**Storage**

-20°C

**Precautions**

Recombinant Murine PDGF-AA is for research use only and not for use in diagnostic or therapeutic procedures.

**Recombinant Murine PDGF-AA - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Recombinant Murine PDGF-AA - Images**