

#### **Recombinant Human PDGF-AA**

Catalog # PBG10353

# Specification

#### Recombinant Human PDGF-AA - Product Information

#### **Recombinant Human 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- $\alpha$  is high-affinity receptor for each of the three PDGF forms. On the other hand, PDGFR- $\alpha$  interacts with only PDGF-BB and PDGF-AB. Recombinant human PDGF-AA is a 28.5 kDa disulfide-linked homodimer of two A chains (250 total amino acids).

## **Biological**Activity

The <strong>ED</strong><sub>50</sub> as determined by the dose-dependent stimulation of thymidine uptake by Balb/c 3T3 cells is  $\leq 1$  ng/ml, corresponding to a specific activity of  $\geq 1$  x  $10 < \sup 6 < \sup 0$  units/mg.

#### **Authenticity**

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

### **Endotoxin**

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

# **Protein Content**

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

#### Storage

-20°C

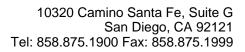
# **Precautions**

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

## **Recombinant Human PDGF-AA - Protocols**

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

- Western Blot
- Blocking Peptides





• Dot Blot

- <u>Immunohistochemistry</u>
- <u>Immunofluorescence</u>
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

**Recombinant Human PDGF-AA - Images**