

Animal-Free Recombinant Human PDGF-AA

Catalog # PBG10488

Specification

Animal-Free Recombinant Human PDGF-AA - Product Information

Animal-Free 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 α -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- α and PDGFR- α is high-affinity receptor for each of the three PDGF forms. On the other hand, PDGFR- α 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).

BiologicalActivity

The ED₅₀ as determined by the dose-dependent stimulation of thymidine uptake by Balb/c 3T3 cells is ≤ 1 ng/ml, corresponding to a specific activity of ≥ 1 x 10 < sup>6 < sup> 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

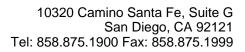
Precautions

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

Animal-Free 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

Animal-Free Recombinant Human PDGF-AA - Images