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Recombinant Human PDGF-AA

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 human PDGF-AA is a 28.5 kDa disulfide-linked homodimer of two A chains (250 total amino acids).

Source:	E.coli
Molecular Weight:	28.5 kDa
Purity:	>95% by SDS-PAGE and visualised by silver stain
Endotoxin level:	< 0.1 ng per ug of PDGF-AA
Stabilizer:	none
Buffer:	50 mM acetic acid
Formulation:	lyophilized

Biological Activity: 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 10⁶ units/mg.

Stability: The lyophilized PDGF-AA is stable for a few weeks at room temperature, but best stored at -20°C. Reconstituted PDGF-AA is best stored at -20°C to -70°C. **Avoid repeated freeze-thaw cycles.**

Usage: Human PDGF-AA is offered for research use. Not for drug use. **Not for human use.**

Catalogue number: 200-051S	Size: 5 µg
	Range: 0.2-10.0 ng/ml

****please note: always centrifuge product before opening vial ****