

Human PDGF-AA Recombinant Protein



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10 µg

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MW (kDa): 28.9	UniProt ID: #P04085	Entrez-Gene Id: 5154
Background		PDGF-AA is integrally involved in embryonic development, angiogenesis, and organogenesis and induces fibroblast proliferation and migration (1,2). PDGF-AA is produced by epithelial, muscle, osteosarcoma, and neuronal progenitor cells (1,3). Active PDGF-AA is formed through intracellular proteolytic cleavage of a large precursor. PDGF-AA is also concentrated in the extracellular matrix through alternative splicing that generates an extended carboxy-terminal that binds extracellular matrix components. The carboxy-terminal stretch is removed extracellularly to generate mature PDGF AA (1,2). PDGF-AA binding to PDGFR-α activates the receptor tyrosine kinase (1). PDGF-AA-induced signaling is through the Ras-MAPK, PI3K/Akt, and PLCγ pathways (1). Dysregulation of PDGF-AA expression and/or signaling is often associated with cancer and fibrotic disorders (1).
Endotoxin		Endotoxin levels are less than or equal to 1 EU / 1 μg hPDGF-AA.
Purity		A greater than or equal to 95% purity was determined by SDS-PAGE.
Source / Purificat	tion	Recombinant human PDGF-AA was expressed in <i>E. coli</i> and is supplied in a lyophilized form.
Bioactivity		The bioactivity of recombinant hPDGF-AA was determined in an NR6R-3T3 cell proliferation assay. The ED_{50} of each lot is less than or equal to 50 ng/mL.
Background Refe	erences	1. Andrae, J. et al. (2008) <i>Genes Dev</i> 22, 1276-312. 2. Hoch, R.V. and Soriano, P. (2003) <i>Development</i> 130, 4769-84. 3. Siegbahn, A. et al. (1990) <i>J Clin Invest</i> 85, 916-20.

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