

DA3551S**Human PDGFA (PDGF-AA) - Purified****Alternate names:**

PDGF A, PDGF alpha, PDGF subunit A, PDGF-1, PDGF-A, PDGF1, Platelet-derived growth factor A chain, Platelet-derived growth factor alpha, Platelet-derived growth factor subunit A

Quantity:

2 µg

Background:

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. PDGFRalpha 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.

Uniprot ID:

[P04085](#)

NCBI:

[NP_002598](#)

GeneID:

[5154](#)

Species:

Human

Source:

E. coli

Format:

State: Lyophilized purified fraction.

Purity: >95% pure by SDS-PAGE and visualised by silver stain.

Buffer System: 50 mM Acetic Acid

Endotoxin Level: < 0.1 ng per µg of PDGF-AA.

Description:

Recombinant Human PDGF-AA is a 28.5 kDa disulfide-linked homodimer of two A chains (250 total amino acids). **Range:** 0.2-10.0 ng/ml

Biological Activity: The ED50 as determined by the dose-dependent stimulation of thymidine uptake by BALB/c 3T3 cells is < 1 ng/ml.

Specific Activity: > 1 x 10⁶ units/mg.

Molecular weight: 28.5 kDa (Total of 250 aa)

Add. Information:

Always centrifuge product before opening vial!

Storage:

Store lyophilized human PDGF-AA at -20°C.

Reconstituted PDGF-AA should be stored in working aliquots at -20°C to -70°C.

Avoid repeated freeze-thaw cycles!

Shelf life: One year from despatch.