

Human PDGF-AB

Synonyms: PDGFA, PDGF1, PDGF-A

PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING

Size	Order #	Lot #	Expiry Date
5 µg	1801.950.005		
10 µg	1801.950.010		
50 µg	1801.950.050		
100 µg	1801.950.100		
500 µg	1801.950.500		
1 mg	1801.950.199		

Please enquire for bulk quantities and other vial sizes

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 a-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- β . PDGFR- α is high-affinity receptor for each of the three PDGF forms. On the other hand, PDGFR- β interacts with only PDGF-BB and PDGF-AB. Recombinant human PDGF-AB is a 25.5 kDa disulfide-linked dimer, consisting of one A chain and one B chains (234 total amino acids).

- **Source** *E. Coli*
- **Purity** $\geq 95\%$ (SDS-PAGE, silver stained)
- **Endotoxin level** < 0.1 ng per ug of PDGF-AB

Biological Activity

The biological activity was determined by the induction of proliferation in NHDF cells (Normal Human Dermal Fibroblasts).

Reconstitution

Centrifuge vial prior to opening. The lyophilized PDGF-AB should be reconstituted in 50mM acetic acid to a concentration not lower than 100µg/ml. For long term storage of reconstituted protein addition of carrier protein (e.g. BSA or HSA; 0.1%) is recommended.

Amino Acid Sequence

Alphachain :MSIEEAVPA VCKTRTVIYE IPRSQVDPTS ANFLIWPPCV EVKRCTGCCN TSSVKCQPSR
 VHHRSVKVAK VEYVRKKPKL KEVQVRLEEH LECACATTS L NPDYREEDTG RPRESGKKRK RKRLKPT Be
 tachain:MS LGS LTIAEPA MIAECKTRTE VFEISRRLID RTNANFLVWP PCVEVQRC SG CCNNRN VQCR
 PTQVQLRPVQ VRKIGIVRKK PIFKKATVTL GDHLACKCET VAAARPVT

Usage: For research use only. Not for use in diagnostic or therapeutic procedures. Not for human use.

*The Buffer may vary depending on the Lot #. Please contact our technical support if you have specific requirements.

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