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PDGFA
Recombinant Human Platelet Derived Growth Factor-AA, Animal Free

Catalog No.	CRP300A-AF	**Quantity:**	2 µg
	CRP300B-AF		10 µg
	CRP300C-AF		1.0 mg
	CRP300D-AF		100 µg

Alternate Names: PDGF-A, PDGF1, PDGF A-chain, platelet-derived growth factor alpha.

Description: Platelet-Derived Growth Factor (PDGF) plays an essential role in the regulation of embryonic development, cell proliferation, cell migration, survival and chemotaxis. Potent mitogen for cells of mesenchymal origin. Required for normal lung alveolar septum formation during embryogenesis, normal development of the gastrointestinal tract, normal development of Leydig cells and spermatogenesis. Required for normal oligodendrocyte development and normal myelination in the spinal cord and cerebellum.The synthesis of PDGF can be induced by IL-1, IL-6, TNF-alpha, TGF-beta and EGF. PDGF is a dimeric glycoprotein formed by two A chains (AA), two B chains (BB), or as a heterodimer with an A and a B chain (AB). The PDGF dimer binds the cell surface receptor tyrosine kinases PDGFR-α and PDGFR-β.

Gene ID: 5154

UniProt ID: P04085

Source: *E. coli*
Manufactured without Animal-derived products, in an Animal Free facility.

Molecular Weight: Dimer, 14.4/28.9 kDa (126/252 aa)

Formulation: Lyophilized from sterile filtered solution containing 0.1% Trifluoroacetic Acid (TFA)

Purity: ≥ 95% by reducing and non-reducing SDS-PAGE

Endotoxin Level: ≤ 1 EU/µg by kinetic LAL

Biological Activity: ED_{50} ≤50 ng/ml, determined by the dose-dependent proliferation of mouse 3T3 cells.

Specific Activity: ≥ 2.0×10^4 units/mg

Amino Acid Sequence: MSIEEAVPAV CKTRTVIYEI PRSQVDPTSA NFLIWPPCVE VKRCTGCCNT SSVKCQPSRV HHRSVKVAKV
EYVRKKPKLK EVQVRLEEHL ECACATTSLN PDYREEDTGR PRESGKKRKR KRLKPT

Reconstitution: **Centrifuge vial prior to opening**. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.

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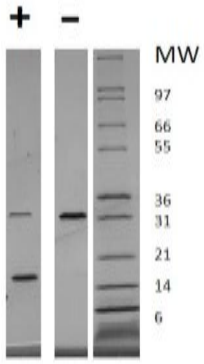
Storage & Stability: Store as supplied at -20°C to -80°C for up to 1 year. Upon reconstitution, prepare working aliquots and store at -20°C to -80°C. It is recommended that a carrier protein such as 0.1% HSA or BSA is added for long term storage.
Avoid repeated freeze-thaw cycles.

Figure: 1 µg run under (+) reducing conditions and (-) non-reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue.



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