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PDGFA Recombinant Human Platelet Derived Growth Factor-AA

Catalog No.	CRP300A CRP300B CRP300C CRP300D	Quantity:	2 μg 10 μg 1.0 mg 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		
Molecular Weight:	Dimer, 14.4/28.9 kDa (126/252 aa)		
Formulation:	Lyophilized from sterile filtered solution containing 0.1% Trifluoroacetic Acid (TFA)		
Purity:	\geq 95% by reducing and non-reducing SDS-PAGE		
Endotoxin Level:	\leq 1 EU/µg by kinetic LAL		
Biological Activity:	$ED_{50} \leq 50$ ng/ml, determined by the dose-dependent proliferation of mouse 3T3 cells.		
Specific Activity:	\geq 2.0 x 10 ⁴ units/mg		
Amino Acid Sequence:	MSIEEAVPAV CKTRTVIYEI SSVKCQPSRV HHRSVKVA EYVRKKPKLK EVQVRLEEI	KV	CVE VKRCTGCCNT EDTGR PRESGKKRKR KRLKPT
Reconstitution:	wash down the sides of the	vial to ensure full recovery of the lyophilized product with the second se	the product, gently pipet and of the protein into solution. It is th sterile water at a concentration ueous solutions.

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

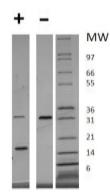


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such as 0.1% HSA or BSA is added for long term storage. **Avoid repeated freeze-thaw cycles.**

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



NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.



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