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32-12274: Human Platelet Derived Growth Factor-AB

Gene :	PDGFA
Gene ID :	5154
Uniprot ID :	P04085/P01127
Alternative Name :	Platelet-derived growth factor subunit A, Platelet-derived growth factor A chain, Platelet-derived growth factor alpha polypeptide, Platelet-derived growth factor alpha polypeptide

Description

Source: Genetically modified E.coli.
Predicted MW:Â Dimer, Alpha:14.4 kDa, Beta: 12.4 kDa, Total 26.8 kDa (Alpha: 126, Beta: 110, Total: 236 aa)
Platelet-derived growth factor (PDGF) is an important regulator of cell growth, proliferation, and angiogenesis. PDGF synthesis is induced by IL-1, IL-6, TNF-alpha, TGF-beta and EGF signaling. PDGF functions as a mitogenic growth hormone on cells of mesenchymal lineage, such as smooth muscle and glial cells. PDGF is also stored in the alpha-granules of platelets and is released upon adherence to traumatized tissues. 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-alpha and PDGFR-beta .

Product Info

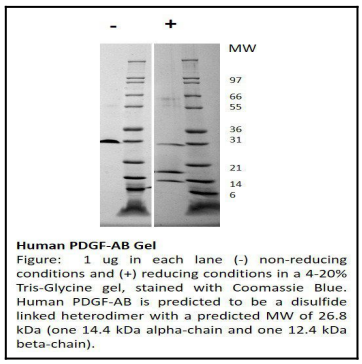
Amount :	10 µg / 100 µg
Purification :	Reducing and Non-Reducing SDS PAGE at >= 95%
Content :	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, pH 7.5 Sterile water at 0.1 mg/mL
Storage condition :	Store at -20°C
Amino Acid :	Alpha chain: MSIEEAVPAV CKTRTVIYEI PRSQVDPTSA NFLIWPPCVE VKRCTGCCNT SSVKCQPSRV HHRSVKVAKV EYVRKKPKLK EVQVRLEEHL ECACATTSLN PDYREEDTGR PRESGKKRKR KRLKPT Beta chain: MSLGSLTIAE PAMIAECKTR TEVFEISRRL IDRTNANFLV WPPCVEVQRC SGCCNNRNVQ CRPTQVQLRP VQVRKIEIVR KKPIFKKATV TLEDHLACKC ETVAAARPVT

Application Note

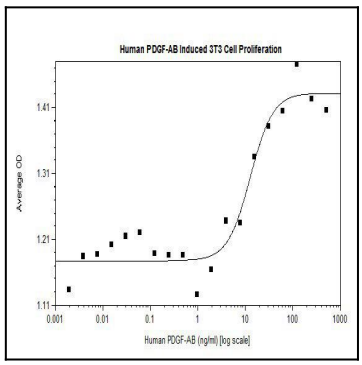
Endotoxin: Less than 0.1 ng/ÃÂµg (1 IEU/ÃÂµg) as determined by LAL test.
Biological Activity was determined by 3T3 cell proliferation at <=20 ng/mL; >= 5.0 x 10^4 units/mg (typical ED50 is < 2 ng/mL). Centrifuge vial before opening, Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80ÃÂ°C and avoid repeat freeze thaws. Upon reconstitution, a small amount of visible precipitate can be expected. A 10% overfill has been added to the total material vialed to compensate for this loss.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.

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Human PDGF-AB Gel
Figure: 1 ug in each lane (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Human PDGF-AB is predicted to be a disulfide linked heterodimer with a predicted MW of 26.8 kDa (one 14.4 kDa alpha-chain and one 12.4 kDa beta-chain).



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