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32-12272: Human Platelet Derived Growth Factor-AA (AF)

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

Description

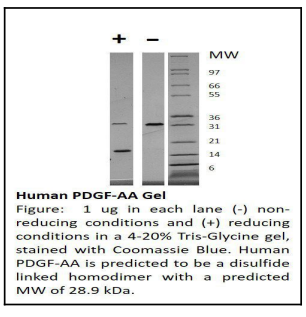
Source: Genetically modified E.coli.
Predicted MW:Â Dimer, 14.4/28.9 kDa (126/252 aa)
Platelet-derived growth factor (PDGF) is an important regulator of cell growth, proliferation, and angiogenesis. Â PDGF synthesis is induced by IL-1, IL-6, TNF-alpha, TGF-beta and EGF signaling. Â PDGF functions as a mitogenic growth hormone on cells of mesenchymal lineage, such as smooth muscle and glial cells. Â PDGF is also stored in the alpha-granules of platelets and is released upon adherence to traumatized tissues. Â 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). Â The PDGF dimer binds the cell surface receptor tyrosine kinases PDGFR-alpha and PDGFR-beta .Â

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 0.1% Trifluoroacetic Acid (TFA) Sterile water at 0.1 mg/mL
Storage condition :	Store at -20°C
Amino Acid :	MSIEEAVPAV CKTRTVIYEI PRSQVDPTSA NFLIWPPCVE VKRCTGCCNT SSVKCQPSRV HHRSVKVAKV EYVRKKPKLK EVQVRLEEHL ECACATTSLN PDYREEDTGR PRESGKKRKR KRLKPT

Application Note

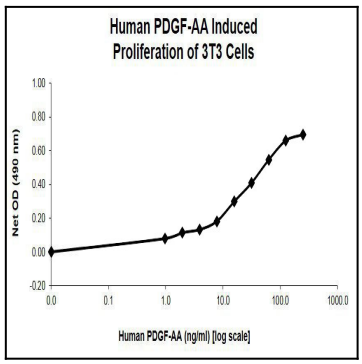
Endotoxin: Less than 0.1 ng/Ã‚Âµg (1 IEU/Ã‚Âµg) as determined by LAL test.
Biological Activity was determined by 3T3 cell proliferation at <=50 ng/mL; >= 2.0 x 10^4 units/mg (typical ED50 is < 25 ng/mL). Centrifuge vial before opening, Suspend the product by gently pipetting the above recommended solution 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 -80Ã‚Â°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.



Human PDGF-AA 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-AA is predicted to be a disulfide linked homodimer with a predicted MW of 28.9 kDa.

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

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