

Pdgfa

Recombinant Mouse Platelet Derived Growth Factor AA

Catalog No.	CS316A	Quantity:	2 µg
	CS316B		10 µg
	CS316C		1 mg
	CS316D		100 µg

Alternate Names: GDGF, ODGF

Description: 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- α , TGF- β 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- α and PDGFR- β .

Gene ID: 18590

UniProt ID: P20033

Source: *E. coli*

Molecular Weight: 14.5/29.0 kDa (126/252 aa) dimer

Formulation: Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)

Purity: $\geq 95\%$ determined by reducing and non-reducing SDS-PAGE

Endotoxin Level: ≤ 1 EU/ μ g by kinetic LAL analysis

Biological Activity: ED₅₀ ≤ 10 ng/ml, determined by the dose-dependent proliferation of Balb/c 3T3 cells

Amino Acid Sequence: MSIEEAVPAV CKTRTVIYEI PRSQVDPTSA NFLIWPPCVE VKRCTGCCNT
SSVKCQPSRV HHRSVKVAKV EYVRKKPKLK EVQVRLEEHL ECACATSNLN
PDHREEETGR RRESGKNRKR KRLKPT

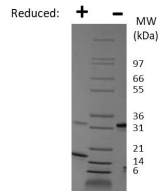
Reconstitution: **Centrifuge vial before opening.** When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which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

Storage & Stability: Lyophilized product is stable at room temperature for shipping purposes. Upon receipt, store at -20°C to -80°C for up to 1 year.

Upon reconstitution, the preparation is stable for up to one month at 2-8°C. For long term storage, prepare working aliquots and store at -20 to -80°C. For maximal stability, dilute to working aliquots in a 0.1% BSA solution.

Avoid repeated freeze-thaw cycles.





Mouse PDGF-AA Gel

Figure: 1 ug run under (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Mouse PDGF-AA is a dimer with a predicted MW of 29.0 kDa (each monomer is 14.5 kDa).

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