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32-20501: Recombinant Murine PDGF-AA(Discontinued)

Reactivity : Mouse, Rat

Alternative Name : Platelet-Derived Growth Factor-AA, Glioma-derived growth factor (GDGF), Osteosarcoma-derived Growth Factor (ODGF)

Description

Source:E.coliPDGFs are disulfide-linked dimers consisting of two 12.0-13.5 kDa polypeptide chains, designated PDGF-A and PDGF-B chains. The three naturally occurring PDGFs, PDGF-AA, PDGF-BB and PDGF-AB, are potent mitogens for a variety of cell types, including smooth muscle cells, connective tissue cells, bone and cartilage cells, and some blood cells. The PDGFs are stored in platelet Alpha -granules, and are released upon platelet activation. The PDGFs are involved in a number of biological processes, including hyperplasia, chemotaxis, embryonic neuron development, and respiratory tubule epithelial cell development. Two distinct signaling receptors used by PDGFs have been identified and named PDGFR-Alpha and PDGFR-Beta . PDGFR-Alpha is a high-affinity receptor for each of the three PDGF forms. On the other hand, PDGFR-Beta interacts with only PDGF-BB and PDGF-AB. Recombinant Murine PDGF-AA is a 28.7 kDa disulfide-linked homodimer of two A chains (250 total amino acids).

Product Info

Amount : 2 µg / 10 µg

Purification : Purity:>= 98% by SDS-PAGE gel and HPLC analyses.

Content : This recombinant protein is supplied in lyophilized form.

Amino Acid : SIEEAVPAVC KTRTVIYEIP RSQVDPTSAN FLIWPPCVEV KRCTGCCNTS SVKCQPSRVH HRSVKVAKVE YVRKKPKLKE VQVRLEEHLE CACATSNLNP DHREEETGRR RESGKNRKRK RLKPT

Application Note

Determined by the dose-dependent stimulation of the proliferation of Balb/c 3T3 cells. The expectedÃ□Â $ED_{50}$for this effect is 8-10 ng/ml.

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