

32-20406: Recombinant Human PDGF-AA(Discontinued)

Reactivity : Dog, Human, Monkey, Mouse, Rat,

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

Description

Source: *E.coli* PDGFs 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 Human PDGF-AA is a 28.5 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 : SIEEAVPAV CKTRTVIYEI PRSQVDPTSA NFLIWPPCVE VKRCTGCCNT SSVKCQPSRV HHRSVKVAKV EYVRKKPKLK EVQVRLEEHL ECACATTS LN PDYREEDTGR PRESGKKRKR KRLKPT

Application Note

The ED_{50} as determined by the dose-dependent stimulation of thymidine uptake by Balb/c 3T3 cells is ≤ 1 ng/ml, corresponding to a specific activity of $\geq 1 \times 10^6$ units/mg.