

32-20405: Recombinant Human PDGF-CC(Discontinued)

Reactivity : Human, Mouse,
Alternative Name : Platelet-Derived Growth Factor-CC

Description

Source: *E. coli* The platelet-derived growth factor (PDGF) family of heparin-binding growth factors consists of five known members, denoted PDGF-AA, PDGF-BB, PDGF-AB, PDGF-CC and PDGF-DD. The mature and active form of these proteins, an anti-parallel, disulfide-linked dimer of two 12-14 kDa, polypeptide chains, is obtained through proteolytic processing of biologically inactive precursor proteins, which contain an N-terminal CUB domain and a PDGF/VEGF homologous domain. The PDGFs interact with two related protein tyrosine kinase receptors, PDGFR-Alpha and PDGFR-Beta, and are potent mitogens for a variety of cell types, including smooth muscle cells, connective tissue cells, bone and cartilage cells, and certain tumor cells. They play an important role in a number of biological processes, including hyperplasia, chemotaxis, embryonic neuron development, and respiratory tubules' epithelial cell development. Mature PDGFs are stored in platelet Alpha -granules, and are released upon platelet activation. PDGF-AA, -AB, -BB and -CC signal primarily through the PDGFR-Alpha receptor, whereas PDGF-DD interacts almost exclusively with the PDGFR-Beta receptor. Recombinant Human PDGF-CC is a 25.0 kDa protein consisting of two identical disulfide-linked, 112 amino acid, polypeptide chains.

Product Info

Amount : 5 µg / 20 µg
Purification : Purity: >= 98% by SDS-PAGE gel and HPLC analyses.
Content : This recombinant protein is supplied in lyophilized form.
Amino Acid : MVVDLNLTE EVRLYSCTPR NFSVSIREEL KRTDTIFWPG CLLVKRCGGN CACCLHNCNE CQCVPSKVTK
KYHEVLQLRP KTGVRGLHKS LTDVALEHHE ECDCVCRGST GG

Application Note

Determined by the dose-dependent stimulation of the proliferation of Balb/c 3T3 cells. The expected ED_{50} for this effect is 15-20 ng/ml.