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32-20404: Recombinant Human PDGF-AB(Discontinued)

Reactivity : Human, Monkey, Mouse

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

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 Human PDGF-AB is a 26.4 kDa disulfide-linked dimer, consisting of oneÂ Alpha chain and oneÂ Beta chain (234 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 : Alpha chain: SIEEAVPAVC KTRTVIYEIP RSQVDPTSAN FLIWPPCVEV KRCTGCCNTS SVKCQPSRVH HRSVKVAKVE YVRKKPKLKE VQVRLEEHLE CACATTSLNP DYREEDTGRP RESGKKRKRK RLKPTBeta chain: SLGSLTIAEP AMIAECKTRT EVFEISRRLI DRTNANFLVW PPCVEVQRCS GCCNNRNVQC RPTQVQLRPV QVRKIGIVRK KPIFKKATVT LGDHLACKCE TVAAARPVT

Application Note

TheÃ Â ED_{50}Ã Â 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>= 1 x 10^6Ã Â units/mg.

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