

Human Platelet-derived Growth Factor (hPDGF)

CATALOG NUMBER: PDGF-010P, 10 µg

Introduction	Platelet-derived growth factor (PDGF) is one of the numerous growth factors, or proteins that regulate cell growth and division. In particular, it plays a significant role in blood vessel formation (angiogenesis), the growth of blood vessels from already-existing blood vessel tissue. PDGF is a potent mitogen for cells of mesenchymal origin, including fibroblasts, smooth muscle cells and glial cells.
Description	Recombinant human hPDGF produced in Yeast is a homodimer of two glycosylated, polypeptide chains containing 109 amino acid residues each, one intercellular and three intracellular pairs of disulfide bonds, having a molecular weight of 30 kDa.
Source	Yeast
Purity	≥ 97% purity (by SDS PAGE and HPLC)
Endotoxin Level	≤1 EU/mg, determined by the LAL method
Biological Activity	Measured in a cell proliferation assay using Balb/c 3T3, the specific activity shall be not less than 1 x10 ⁶ IU/mg
Formulation	Sterile lyophilized powder, pH7.4, 100 mM Glycine, 150mM NaCl buffer solution. Reconstitute with double distilled water at a concentration of no less than 50 µg/ml with 0.1% human serum albumin (A highly purified plant-derived human serum albumin is strongly suggested to be used, Cat# HAS-1r) or bovine serum albumin as a stock.
Storage	Stable for 6-months from the date of shipment when kept at -20 °C or -70 °C. Upon reconstitution, it can be stored at 4 °C for at least one month or -20 °C for at least three months. Avoid repeated freeze-thaw cycles.
Usage	This product is produced for LABORATORY RESEARCH USE ONLY.