

For Research Use Only. Not for Use in Diagnostic Procedures.

MW (kDa): 29	UniProt ID: #P01127	Entrez-Gene Id: 5155
Background		Platelet-derived growth factor (PDGF) is a dimeric molecule that exists in homodimers or heterodimers of related polypeptide chains (A and B). Two types of PDGF receptors have been identified. The PDGF alpha-receptor binds all three PDGF isoforms with high affinity, whereas the beta-receptor binds only PDGF-BB with high affinity, PDGF-AB with low affinity, and does not appear to bind PDGF-AA (1). Ligand binding induces receptor dimerization and autophosphorylation, allowing binding and activation of cytoplasmic SH2 domain-containing signal transduction molecules. A number of different signaling pathways are then initiated, leading to cell growth, actin reorganization, migration, and differentiation (2-4). In clinical studies, PDGF expression has been demonstrated in a number of different solid tumors, from glioblastomas to prostate carcinomas. In these various tumor types, the biological role of PDGF signaling can vary from autocrine stimulation of cancer cell growth to more subtle paracrine interactions involving adjacent stroma and even angiogenesis. Targeting PDGF signaling is becoming an effective tumor treatment method (5).
Purity		>97%
Source / Purificatio	on	Human Recombinant Protein
Bioactivity		1 x 10 ⁵ IU/mg
Background Refere	ences	 Westermark, B. et al. (1990) <i>Ciba Found. Symp.</i> 150, 6-22. Heldin, C.H. (1997) <i>FEBS Lett.</i> 410, 17-21. Bornfeldt, K.E. et al. (1995) <i>Ann. N.Y. Acad. Sci.</i> 766, 416-430. Renhowe, P.A. (2002) <i>Curr. Opin. Drug Discov. Devel.</i> 5, 214-224. George, D. (2001) <i>Semin. Oncol.</i> 28, 27-33.
Trademarks and Patents		Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.
		All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.
Limited Uses		Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.
		Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.

Orders: 877-616-CELL (2355) • orders@cellsignal.com • Support: 877-678-TECH (8324) • info@cellsignal.com • Web: cellsignal.com For Research Use Only. Not for Use in Diagnostic Procedures.