

## Active Recombinant Human PDGFB (82-190aa)

**Cat. No.** PDGFB-035E    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human PDGFB (Ser82 Thr190) was expressed in E. coli and produced using nonanimal reagent in an animalfree laboratory.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	<p>Plateletderived growth factor (PDGF) was discovered as a major mitogenic factor present in serum but absent from plasma. It was found to be secreted from the µgranules of platelets activated during the coagulation of blood to form serum. Subsequent studies have demonstrated that PDGF is not one molecule but three, each a dimeric combination of two distinct but structurally related peptide chains designated A and B. In general, PDGF isoforms are potent mitogens for connective tissue cells, including dermal fibroblasts, glial cells, arterial smooth muscle cells and some epithelial and endothelial cells. In addition to its activity as a mitogen, PDGF is chemotactic for fibroblasts, smooth muscle cells, neutrophils and mononuclear cells.</p>
<b>Nterminal Sequence Analysis</b>	Ser82
<b>Structure / Form</b>	Disulfidelinked homodimer
<b>Molecular Mass</b>	12.4 kDa
<b>Activity</b>	Measured in a cell proliferation assay using NR6R3T3 mouse fibroblasts. The ED50

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for this effect is typically 1.5 – 6 ng/mL.

**Endotoxin Level** <1.0 EU per 1 µg of the protein by the LAL method.

**Purity** >97%, by SDS-PAGE under reducing conditions and visualized by silver stain.

**Formulation** Lyophilized from a 0.2 µm filtered solution in Acetonitrile and TFA. See Certificate of Analysis for details.

**Reconstitution** Reconstitute at 100 µg/mL in sterile 4 mM HCl.

**Shipping** The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

**Storage** Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 1. 12 months from date of receipt, 20 to 70 °C as supplied. 2. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 3. 3 months, 20 to 70 °C under sterile conditions after reconstitution.

**Unitprot ID** P01127

## GENE INFORMATION

**Gene Name** PDGFB platelet-derived growth factor beta polypeptide [ Homo sapiens ]

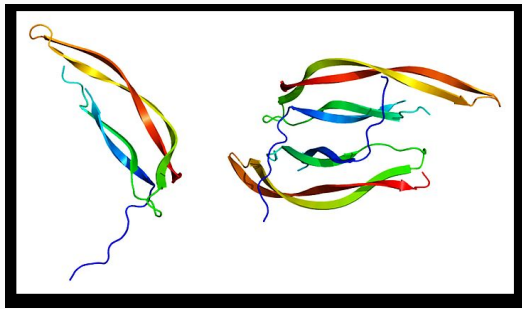
**Official Symbol** PDGFB

**Synonyms** PDGFB; platelet-derived growth factor beta polypeptide; SIS; SSV; PDGF2; c-sis; FLJ12858; platelet-derived growth factor subunit B; PDGF-2; becaplermin; PDGF, B chain; PDGF subunit B; proto-oncogene c-Sis; platelet-derived growth factor 2; platelet-derived growth factor B chain; platelet-derived growth factor, B chain

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<b>Gene ID</b>	5155
<b>mRNA Refseq</b>	NM_002608
<b>Protein Refseq</b>	NP_002599
<b>MIM</b>	190040
<b>Chromosome Location</b>	22q12.3-q13.1; 22q13.1
<b>Pathway</b>	Ceramide signaling pathway; Cytokine-cytokine receptor interaction; MAPK signaling pathway; Pathways in cancer; Platelet Activation; Regulation of actin cytoskeleton; Signaling by PDGF
<b>Function</b>	cell surface binding; collagen binding; growth factor activity; platelet-derived growth factor binding; platelet-derived growth factor receptor binding; protein binding; protein homodimerization activity; protein tyrosine kinase activity
<b>PDB rendering based on 1pdg.</b>	

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