

Active Glycosylated Recombinant Human PDGFB Homodimer

Cat. No. PDGFB-050H Lot. No. (See product label)

SPECIFICATION

Product Overview	Platelet-derived growth factor (PDGF) is a homodimer composed of two glycosylated polypeptide chains. Each chain contains 109 amino acid residues and has a molecular weight of approximately 24.5 kDa. It is a glycosylated protein expressed in yeast.
Species	Human
Source	Yeast
Description	This gene encodes a member of the protein family comprised of both platelet-derived growth factors (PDGF) and vascular endothelial growth factors (VEGF). The encoded preproprotein is proteolytically processed to generate platelet-derived growth factor subunit B, which can homodimerize, or alternatively, heterodimerize with the related platelet-derived growth factor subunit A. These proteins bind and activate PDGF receptor tyrosine kinases, which play a role in a wide range of developmental processes. Mutations in this gene are associated with meningioma. Reciprocal translocations between chromosomes 22 and 17, at sites where this gene and that for collagen type 1, alpha 1 are located, are associated with dermatofibrosarcoma protuberans, a rare skin tumor. Alternative splicing results in multiple transcript variants.
Form	Sterile lyophilized powder
Molecular Mass	12.1kDa (Monomer)

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Bio-activity	Activity is determined by a cell-proliferation assay using the Balb/c 3T3 cell line. Specific activity $\geq 2 \times 10^6$ IU/mg.
Endotoxin	<1 EU/ μ g determined by LAL.
Purity	$\geq 97\%$
Storage	Lyophilized samples are stable for 36 months from the date of receipt when stored at -20 to -70 centigrade. After reconstitution, the cytokine can be kept for one month at $2-8$ centigrade under sterile conditions or for three months at -20 to -70 centigrade in a manual-defrost freezer without significant loss of activity. Avoid repeated freeze-thaw cycles.
Storage Buffer	This product is provided as a sterile lyophilized powder in a buffer system consisting of 100 mM glycine and 150 mM NaCl at pH 3.0.
Reconstitution	Before opening the vial, centrifuge at 10,000 rpm for 30–60 seconds, or at 3,000 rpm for 5 minutes, then reconstitute with 0.2 mL of sterile water.

GENE INFORMATION

Gene Name	PDGFB platelet derived growth factor subunit B [Homo sapiens (human)]
Official Symbol	PDGFB
Synonyms	PDGFB; platelet derived growth factor subunit B; SIS; SSV; IBGC5; PDGF2; c-sis; PDGF-2; platelet-derived growth factor subunit B; PDGF subunit B; PDGF, B chain; becaplermin; epididymis secretory sperm binding protein; platelet-derived growth factor 2; platelet-derived growth factor B chain; platelet-derived growth factor beta polypeptide (simian sarcoma viral (v-sis) oncogene homolog); platelet-derived growth factor, beta polypeptide (oncogene SIS); proto-oncogene c-Sis

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Gene ID	5155
mRNA Refseq	NM_002608
Protein Refseq	NP_002599
MIM	190040
UniProt ID	P01127

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