

Recombinant Human PDGFB

Cat. No. PDGFB-30825TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PDGF BB protein, is a disulfide-linked homodimer of two full length B chains ; 218 total amino acids, 24.3kDa.
Species	Human
Source	E.coli
Description	The protein encoded by this gene is a member of the platelet-derived growth factor family. The four members of this family are mitogenic factors for cells of mesenchymal origin and are characterized by a motif of eight cysteines. This gene product can exist either as a homodimer (PDGF-BB) or as a heterodimer with the platelet-derived growth factor alpha polypeptide (PDGF-AB), where the dimers are connected by disulfide bonds. Mutations in this gene are associated with meningioma. Reciprocal translocations between chromosomes 22 and 7, at sites where this gene and that for COL1A1 are located, are associated with a particular type of skin tumor called dermatofibrosarcoma protuberans resulting from unregulated expression of growth factor. Two alternatively spliced transcript variants encoding different isoforms have been identified for this gene.
Form	Lyophilised
Purity	>95% by SDS-PAGE
Storage	Store at -20°C. Stable for 12 months at -20°C

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

GENE INFORMATION

Gene Name	PDGFB platelet-derived growth factor beta polypeptide [Homo sapiens]
Official Symbol	PDGFB
Synonyms	PDGFB; platelet-derived growth factor beta polypeptide; platelet derived growth factor beta polypeptide (simian sarcoma viral (v sis) oncogene homolog) , SIS; platelet-derived growth factor subunit B; becaplermin; oncogene SIS; SSV;
Gene ID	5155
mRNA Refseq	NM_002608
Protein Refseq	NP_002599
MIM	190040
Uniprot ID	P01127
Chromosome Location	22q13.1
Pathway	Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Downstream signal transduction, organism-specific biosystem; Focal Adhesion, organism-specific biosystem; Focal adhesion, organism-specific biosystem;
Function	cell surface binding; collagen binding; eukaryotic cell surface binding; growth factor activity; platelet-derived growth factor binding;

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