

## Recombinant Human PDGFB

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

### SPECIFICATION

|                         |  |
|-------------------------|--|
| <b>Product Overview</b> | Recombinant Human PDGF BB protein, is a disulfide-linked homodimer of two full length B chains ; 218 total amino acids, 24.3kDa.   |
| <b>Species</b>          | Human  |
| <b>Source</b>           | E.coli   |
| <b>Description</b>      | <p>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.</p> |
| <b>Form</b>             | Lyophilised  |
| <b>Purity</b>           | >95% by SDS-PAGE   |
| <b>Storage</b>          | Store at -20°C. Stable for 12 months at -20°C  |

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## GENE INFORMATION

|                            |  |
|----------------------------|--|
| <b>Gene Name</b>           | PDGFB platelet-derived growth factor beta polypeptide [ Homo sapiens ]   |
| <b>Official Symbol</b>     | PDGFB  |
| <b>Synonyms</b>            | 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;   |
| <b>Gene ID</b>             | 5155   |
| <b>mRNA Refseq</b>         | NM_002608  |
| <b>Protein Refseq</b>      | NP_002599  |
| <b>MIM</b>                 | 190040   |
| <b>Uniprot ID</b>          | P01127   |
| <b>Chromosome Location</b> | 22q13.1  |
| <b>Pathway</b>             | 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; |
| <b>Function</b>            | cell surface binding; collagen binding; eukaryotic cell surface binding; growth factor activity; platelet-derived growth factor binding;   |

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