Bioactive

PDGFB (Human) Recombinant Protein

Catalog # P9009 Size 2 x 10 ug

Specification

Product Description	Human PDGFB (P01127) recombinant protein expressed in *Escherichia coli*.
Sequence	SLGSLTIAEPAMIAECKTRTEVFEISRRLIDRTNANFLVWPPCVEVQRCSGCCNNRNVQCRPTQV QLRPVQVRKIEIVRKKPIFKKATVTLEDHLACKCETVAAARPVT.
Host	Escherichia coli
Theoretical MW (kDa)	24.3
Form	Lyophilized
Preparation Method	*Escherichia coli* expression system
Purity	> 95% by HPLC and SDS PAGE
Activity	Determined by the dose-dependent stimulation of the proliferation of Balb/c 3T3 cells. The expected ED_{50} for this effect is 1.0-3.0 ng/mL.
Storage Buffer	Lyophilized from PBS, pH7.4.
Storage Instruction	Store at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles.

Applications

- Functional Study
- SDS-PAGE

Gene Info — PDGFB

Entrez GeneID	5155

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Protein Accession#	P01127
Gene Name	PDGFB
Gene Alias	FLJ12858, PDGF2, SIS, SSV, c-sis
Gene Description	platelet-derived growth factor beta polypeptide (simian sarcoma viral (v-sis) oncogene homolog)
Omim ID	190040
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the platelet-derived growth factor family. The fou r members of this family are mitogenic factors for cells of mesenchymal origin and are characteriz ed by a motif of eight cysteines. This gene product can exist either as a homodimer (PDGF-BB) o r as a heterodimer with the platelet-derived growth factor alpha polypeptide (PDGF-AB), where th e dimers are connected by disulfide bonds. Mutations in this gene are associated with meningio ma. 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 dermatofibrosa rcoma protuberans resulting from unregulated expression of growth factor. Two alternatively splice d transcript variants encoding different isoforms have been identified for this gene. [provided by R efSeq
Other Designations	PDGF, B chain|Platelet-derived growth factor, beta polypeptide (oncogene SIS)|becaplermin|onc ogene SIS|platelet-derived growth factor 2|platelet-derived growth factor beta|platelet-derived gro wth factor, B chain|v-sis platelet-derived growth factor beta p

Pathway

- Cytokine-cytokine receptor interaction
- Focal adhesion
- Gap junction
- Glioma
- MAPK signaling pathway
- Melanoma
- Pathways in cancer
- Prostate cancer
- Regulation of actin cytoskeleton
- Renal cell carcinoma

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Disease

- Amyotrophic lateral sclerosis
- Anoxia
- Carcinoma
- Cardiovascular Diseases
- Chorioamnionitis
- Coronary Artery Disease
- Diabetes Mellitus
- Disease Progression
- Edema
- Fetal Membranes
- Genetic Predisposition to Disease
- Glomerulonephritis
- Head and Neck Neoplasms
- Neoplasms
- Obstetric Labor
- Ovarian Neoplasms
- Pre-Eclampsia
- Premature Birth
- Recurrence

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