Bioactive

PDGFB (Human) Recombinant Protein

Catalog # P9011 Size 2 x 10 ug

Specification

Product Description	Human PDGFB (P01127) recombinant protein expressed in *Saccharomyces cerevisiae*.
Host	Yeast
Theoretical MW (kDa)	32
Form	Lyophilized
Preparation Method	*Saccharomyces cerevisiae* expression system
Purity	> 98% by SDS PAGE
Activity	The ED_{50}, as measured by the ability to stimulate proliferation of mouse 3T3 fibroblasts is typically 1 ng/mL, corresponding to a Specific Activity of 1,000,000 IU/mg.
Storage Buffer	Lyophilized from 20mM sodium phosphate in absence of any carrier protein.
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
Protein Accession#	P01127

Copyright © 2023 Abnova Corporation. All Rights Reserved.

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 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. [provided by RefSeq
Other Designations	PDGF, B chain|Platelet-derived growth factor, beta polypeptide (oncogene SIS)|becaplermin|oncogene SIS|platelet-derived growth factor 2|platelet-derived growth factor beta|platelet-derived growth 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

Copyright © 2023 Abnova Corporation. All Rights Reserved.

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

Copyright © 2023 Abnova Corporation. All Rights Reserved.