

PDGFA/PDGFB (Human) Recombinant Protein

Catalog # P8117

Size 1 mg

Specification

Product Description	Human PDGFA/PDGFB recombinant protein expressed in <i>Escherichia coli</i> .
Host	<i>Escherichia coli</i>
Form	Lyophilized
Preparation Method	<i>Escherichia coli</i> expression system
Storage Buffer	Lyophilized from a solution containing 1X PBS, pH 7.4. Reconstitute the lyophilized powder in ddH ₂ O to 100 ug/mL.
Storage Instruction	Lyophilized protein should be stored at -20°C. Protein aliquots should be stored at -20°C to -80°C. This product is stable for one year. Avoid repeated freeze/thaw cycles.

Applications

- Functional Study
- SDS-PAGE

Gene Info — PDGFA

Entrez GeneID	5154
Gene Name	PDGFA
Gene Alias	PDGF-A, PDGF1
Gene Description	platelet-derived growth factor alpha polypeptide
Omim ID	173430

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 or as a heterodimer with the platelet-derived growth factor beta polypeptide, where the dimers are connected by disulfide bonds. Studies using knockout mice have shown cellular defects in oligodendrocytes, alveolar smooth muscle cells, and Leydig cells in the testis; knockout mice die either as embryos or shortly after birth. Two splice variants have been identified for this gene. [provided by RefSeq]

Other Designations

PDGF A-chain|platelet-derived growth factor alpha|platelet-derived growth factor alpha chain|platelet-derived growth factor alpha isoform 2 preproprotein

Gene Info — PDGFB

Entrez GeneID

[5155](#)

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](#)
- [Cytokine-cytokine receptor interaction](#)

- [Focal adhesion](#)
- [Focal adhesion](#)
- [Gap junction](#)
- [Gap junction](#)
- [Glioma](#)
- [Glioma](#)
- [MAPK signaling pathway](#)
- [MAPK signaling pathway](#)
- [Melanoma](#)
- [Melanoma](#)
- [Pathways in cancer](#)
- [Pathways in cancer](#)
- [Prostate cancer](#)
- [Prostate cancer](#)
- [Regulation of actin cytoskeleton](#)
- [Regulation of actin cytoskeleton](#)
- [Renal cell carcinoma](#)

Disease

- [Amyotrophic lateral sclerosis](#)
- [Anoxia](#)
- [Asthma](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Chorioamnionitis](#)
- [Coronary Artery Disease](#)

- [Coronary Artery Disease](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Edema](#)
- [Fetal Membranes](#)
- [Genetic Predisposition to Disease](#)
- [Genetic Predisposition to Disease](#)
- [Glomerulonephritis](#)
- [Head and Neck Neoplasms](#)
- [Neoplasms](#)
- [Obstetric Labor](#)
- [Ovarian Neoplasms](#)
- [Pre-Eclampsia](#)
- [Premature Birth](#)
- [Recurrence](#)