Bioactive

PDGFA (Human) Recombinant Protein

Catalog # P9003 Size 2 x 10 ug

Specification

Product Description	Human PDGFA (P04085) recombinant protein expressed in *Escherichia coli*.
Sequence	SIEEAVPAVCKTRTVIYEIPRSQVDPTSANFLIWPPCVEVKRCTGCCNTSSVKCQPSRVHHRSVK VAKVEYVRKKPKLKEVQVRLEEHLECACATTSLNPDYREEDTGRPRESGKKRKRKRLKPT.
Host	Escherichia coli
Theoretical MW (kDa)	28.5
Form	Lyophilized
Preparation Method	*Escherichia coli* expression system
Purity	> 95% by SDS PAGE
Activity	The ED_{50}, calculated by the dose-dependent proliferation of murine 3T3 indicator cells is < 0.32 ng/mL, corresponding to a Specific Activity of $3,125x10^3$ units/mg.
Storage Buffer	Lyophilized without any additives.
Storage Instruction	Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Applications

- Functional Study
- SDS-PAGE

Gene Info — PDGFA

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Entrez GeneID	5154
Protein Accession#	P04085
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

Pathway

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

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Disease

- Asthma
- Coronary Artery Disease
- Genetic Predisposition to Disease

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