Bioactive

PDGFA (Human) Recombinant Protein

Catalog # P6213 Size 100 ug

Applications

Result of activity analysis

Result of activity analysis

Specification

Product Description	Human PDGFA (P04085) recombinant protein expressed in *E.Coli*.
Sequence	MSIEEAVPAVCKTRTVIYEIPRSQVDPTSANFLIWPPCVEVKRCTGCCNTSSVKCQPSRVHHRSV KVAKVEYVRKKPKLKEVQVRLEEHLECACATTSLNPDYREEDTGRPRESGKKRKRKRLKPT
Host	Escherichia coli
Theoretical MW (kDa)	14.4/28.9
Form	Lyophilized
Purity	>= 95%
Endotoxin Level	<= 1 EUs/ug (Kinetic LAL)
Activity	ED_{50} <= 50 ng/mL NR6R-3T3 cell proliferation The values provided above are minimum expected values to pass internal requirements.
Quality Control Testing	Reducing and Non-Reducing SDS PAGE
Conformation	Dimer

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Storage Buffer	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA).
Storage Instruction	Stored at -20°C to-80°C for 12 month. After reconstitution with sterile water at 0.1 mg/mL, store at -20°C to -80°C for 3 months, store at 4°C for 1 month. Aliquot to avoid repeated freezing and thawing.
Note	Result of activity analysis Result of activity analysis

Applications

- Functional Study
- Western Blot

Gene Info — PDGFA

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 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 or as a hetero dimer 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, alv eolar 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|plate let-derived growth factor alpha isoform 2 preproprotein

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Pathway

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

Disease

- Asthma
- Coronary Artery Disease
- Genetic Predisposition to Disease

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