

## Recombinant Rat Pdgfa protein, His/S-tagged

**Cat. No.** Pdgfa-176R    **Lot. No.** (See product label)

### SPECIFICATION

**Product Overview**      Recombinant Rat Pdgfa fused with His/S tag was expressed in E. coli.

**Species**                      Rat

**Source**                        E.coli

**Description**

Platelet-derived growth factor is a potent mitogen for cells of mesenchymal origin. Binding of this growth factor to its affinity receptor elicits a variety of cellular responses. It is released by platelets upon wounding and plays an important role in stimulating adjacent cells to grow and thereby heal the wound. Antiparallel disulfide-linked dimer of nonidentical (A and B) chains. Homodimers of A and B chains are implicated in transformation processes. The long form contains a basic insert which acts as a cell retention signal. A-A and B-B, as well as A-B, dimers can bind to the PDGF receptor. It belongs to the PDGF/VEGF growth factor family.

**Form**                            Lyophilized from sterile PBS, pH 7.4

**Purity**                         > 95 % as determined by SDS-PAGE

**Storage**                        Store at -70 centigrade. Avoid repeated freeze/thaw cycles.

### GENE INFORMATION

**Gene Name**                      [Pdgfa platelet-derived growth factor alpha polypeptide \[ Rattus norvegicus \]](#)

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<b>Official Symbol</b>	<a href="#">Pdgfa</a>
<b>Synonyms</b>	PDGFA; platelet-derived growth factor alpha polypeptide; platelet-derived growth factor subunit A; PDGF-1; PDGF subunit A; platelet derived growth factor, alpha; Platelet-derived growth factor A chain; PDGFACP;
<b>Gene ID</b>	<a href="#">25266</a>
<b>mRNA Refseq</b>	<a href="#">NM_012801</a>
<b>Protein Refseq</b>	<a href="#">NP_036933</a>
<b>UniProt ID</b>	<a href="#">P28576</a>
<b>Chromosome Location</b>	12q11
<b>Pathway</b>	Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Cytokines and Inflammatory Response (BioCarta), organism-specific biosystem; Downstream signal transduction, organism-specific biosystem; Focal adhesion, organism-specific biosystem; Focal adhesion, conserved biosystem; Gap junction, organism-specific biosystem;
<b>Function</b>	cell surface binding; cell surface binding; collagen binding; collagen binding; eukaryotic cell surface binding; eukaryotic cell surface binding; growth factor activity; platelet-derived growth factor binding; platelet-derived growth factor binding; platelet-derived growth factor receptor binding; contributes_to platelet-derived growth factor receptor binding; platelet-derived growth factor receptor binding; protein heterodimerization activity; protein heterodimerization activity; protein homodimerization activity; protein homodimerization activity;

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