

## Active Recombinant Human PDGFRA protein, GST-tagged

Cat. No. PDGFRA-29161TH Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human PDGFRA(550-end) fused with GST tag at N-terminal was expressed in Insect cells.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>ProteinLength</b>	550-end a.a.
<b>Description</b>	<p>PDGFR<math>\alpha</math> (platelet-derived growth factor receptor <math>\alpha</math>) is a member of the PDGFR family of membrane receptors with intrinsic tyrosine kinase activity. Aberrant expression of PDGFR<math>\alpha</math> has been linked to developmental abnormalities in vertebrate models and has been implicated in multiple disease states in humans. There is widespread expression of PDGFR<math>\alpha</math> in renal cell types involved in fibrotic and sclerosing processes. PDGF and its receptor PDGFR<math>\alpha</math> are inducers of fibrosis in the repair phase of inflammatory bowel disease and they may also be involved in the active inflammatory phase. PDGFR<math>\alpha</math>(T674I) is one of the mutant forms of PDGFR<math>\alpha</math>.</p>
<b>Form</b>	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
<b>Bio-activity</b>	20 nmol/min/mg
<b>Molecular Mass</b>	~95 kDa

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<b>Purity</b>	>80%
<b>Applications</b>	Kinase Assay
<b>Stability</b>	1 year at -70 centigrade from date of shipment.
<b>Storage</b>	Store product at -70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
<b>Concentration</b>	0.1 g/μ

## GENE INFORMATION

<b>Gene Name</b>	PDGFRA platelet-derived growth factor receptor, alpha polypeptide [ Homo sapiens ]
<b>Official Symbol</b>	PDGFRA
<b>Synonyms</b>	PDGFRA; platelet-derived growth factor receptor, alpha polypeptide; platelet-derived growth factor receptor alpha; CD140a; PDGFR2; PDGFR-alpha; PDGF-R-alpha; CD140a antigen; PDGFRA/BCR fusion; CD140 antigen-like family member A; platelet-derived growth factor receptor 2; alpha-type platelet-derived growth factor receptor; rearranged-in-hypereosinophilia-platelet derived growth factor receptor alpha fusion protein; CD140A; PDGFR-2; RHEPDGFRA; MGC74795;
<b>Gene ID</b>	5156
<b>mRNA Refseq</b>	NM_006206
<b>Protein Refseq</b>	NP_006197

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<b>MIM</b>	173490
<b>UniProt ID</b>	P16234
<b>Chromosome Location</b>	4q12
<b>Pathway</b>	ATF-2 transcription factor network, organism-specific biosystem; Calcium signaling pathway, organism-specific biosystem; Calcium signaling pathway, conserved biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Downstream signal transduction, organism-specific biosystem; Endocytosis, organism-specific biosystem;
<b>Function</b>	ATP binding; nucleotide binding; phosphatidylinositol 3-kinase binding; platelet-derived growth factor alpha-receptor activity; platelet-derived growth factor alpha-receptor activity; platelet-derived growth factor binding; platelet-derived growth factor binding; platelet-derived growth factor receptor binding; protein homodimerization activity; protein tyrosine kinase activity; receptor activity; transmembrane receptor protein tyrosine kinase activity; vascular endothelial growth factor binding; vascular endothelial growth factor-activated receptor activity;

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