

# Recombinant Human PDGFRB Protein (33-532aa), C-hlgG-His tagged

**Cat. No.** PDGFRB-129H    **Lot. No.** (See product label)

## SPECIFICATION

**Product Overview**      Recombinant human PDGFRB (33-532aa), fused to hlgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

**Species**      Human

**Source**      Insect Cells

**ProteinLength**      33-532aa

**Description**      This gene encodes a member of the vascular endothelial growth factor receptor (VEGFR) family. VEGFR family members are receptor tyrosine kinases (RTKs) which contain an extracellular ligand-binding region with seven immunoglobulin (Ig)-like domains, a transmembrane segment, and a tyrosine kinase (TK) domain within the cytoplasmic domain. This protein binds to VEGFR-A, VEGFR-B and placental growth factor and plays an important role in angiogenesis and vasculogenesis. Expression of this receptor is found in vascular endothelial cells, placental trophoblast cells and peripheral blood monocytes. Multiple transcript variants encoding different isoforms have been found for this gene. Isoforms include a full-length transmembrane receptor isoform and shortened, soluble isoforms. The soluble isoforms are associated with the onset of pre-eclampsia.

**Form**      Liquid

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<b>Molecular Mass</b>	83.3 kDa (739aa)
<b>AA Sequence</b>	<p>LVVTPPGPELVLNVSSTFVLTCSGSAPVVWERMSQEPPQEMAKAQDGTFFSSVLTLT  NLTGLDGTGEYFCTHNSRGLTDERKRLYIFVPDPTVGFLPNDAEELFIFLITEITEITIP  CRVTDQPQLVVTLHEKKGDVALPVPYDHQRGFSGIFEDRSYICKTTIGDREVDSDAYY  VYRLQVSSINVSNAVQTVVRQGENITLMCIVIGNEVVNFEWTPRKEGRLVEPVT  DFLLDMPYHIRSILHIPSAAELEDSTYTCNVTESVNDHQDEKAINITVVESGYVRLLE  VGTLLQFAELHRSRTLQVVFEAYPPPTVLWFKDNRTLGDSSAGEIALSTRNVSETRYV  SELTIVRVKVAEAGHYTMRAFHEDAQVLSFQLQINVPVRVLELSESHPDSTGEQTV  RCRGRGMPQPNIWSACRDLKRCPRELPPTLLGNSSEEEESQLETNVTYWEEEQEFE  VVSTLRLQHVDRLSVRCTLRNAVGQDTQEVIVVPHSLPFKV&lt; LEPKSCDKTHTCP  PCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVE  VHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAK  GQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPP  VLDSGDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGKHHHH  HH&gt;</p>
<b>Endotoxin</b>	< 1 EU/μg of protein (determined by LAL method)
<b>Purity</b>	> 90% by SDS-PAGE
<b>Applications</b>	SDS-PAGE
<b>Storage</b>	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
<b>Concentration</b>	0.25 mg/mL (determined by Bradford assay)
<b>Storage Buffer</b>	Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

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## GENE INFORMATION

<b>Gene Name</b>	PDGFRB platelet-derived growth factor receptor, beta polypeptide [ Homo sapiens (human) ]
<b>Official Symbol</b>	PDGFRB
<b>Synonyms</b>	PDGFRB; platelet-derived growth factor receptor, beta polypeptide; PDGFR; platelet-derived growth factor receptor beta; CD140b; JTK12; PDGFR1; PDGFR-beta; PDGF-R-beta; CD140 antigen-like family member B; platelet-derived growth factor receptor 1; beta-type platelet-derived growth factor receptor; CD140B; PDGFR-1;
<b>Gene ID</b>	5159
<b>mRNA Refseq</b>	NM_002609
<b>Protein Refseq</b>	NP_002600
<b>MIM</b>	173410
<b>UniProt ID</b>	P09619
<b>SDS-PAGE</b>	3 µg by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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