

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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Molecular Mass	83.3 kDa (739aa)
AA Sequence	LVVTPPGPELVNLVSSTFVLTCSGSAPVWVERMSQEPPQEMAKAQDGTFFSSVLTLT NLTGLDTGEYFCTHNSRGLTDERKRLYIFVPDPTVGFLPNDAEELFIFLTEITEITIP CRVTDQPQLVVTLHEKKGDVALVPYDHQRGFSGIFEDRSYICKTTIGDREVDSDAYY VYRLQVSSINVSNAVQTVVRQGENITLMCIVIGNEVVNFEWTPRKESGRLVEPVT DFLDMPYHIRSILHIPS AELEDSGT YTCNVTESVNDHQDEKAINITVVESGYVRLLGE VGT LQFAELHRSRTLQVVFEAYPPPTVLWFKDNRTLGDSSAGEIALSTRNVSETRYV SELTLVRVKVAEAGHYTMRAFHEDA EVQLSFQLQINVPVRVLELSESHPD SGEQTV RCRGRGMPQPNIWSACRDLKRCPRELPPTLLGNSSEEEESQLETNVTYWEEEQEFE VVSTLRLQHVD RPLSVRCTL RNAVGQDTQEVI VVPHSLP FKV< LEPKSCDKTHTCP PCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVE VHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAK GQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTPP VLDS DGSFFLYSKLTVDKSRWQQGNV FSCSV MHEALHNHYTQKSLSLSPGKHHHH HH>
Endotoxin	< 1 EU/μg of protein (determined by LAL method)
Purity	> 90% by SDS-PAGE
Applications	SDS-PAGE
Storage	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.
Concentration	0.25 mg/mL (determined by Bradford assay)
Storage Buffer	Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

GENE INFORMATION

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

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