

## Recombinant Human PDGFRB Protein, His-tagged

**Cat. No.** PDGFRB-415H **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human PDGFRB protein with His tag was expressed in HEK293.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	1106
<b>Description</b>	<p>The protein encoded by this gene is a cell surface tyrosine kinase receptor for members of the platelet-derived growth factor family. These growth factors are mitogens for cells of mesenchymal origin. The identity of the growth factor bound to a receptor monomer determines whether the functional receptor is a homodimer (PDGFB or PDGFD) or a heterodimer (PDGFA and PDGFB). This gene is essential for normal development of the cardiovascular system and aids in rearrangement of the actin cytoskeleton. This gene is flanked on chromosome 5 by the genes for granulocyte-macrophage colony-stimulating factor and macrophage-colony stimulating factor receptor; all three genes may be implicated in the 5-q syndrome. A translocation between chromosomes 5 and 12, that fuses this gene to that of the ETV6 gene, results in chronic myeloproliferative disorder with eosinophilia.</p>
<b>Form</b>	Lyophilized
<b>Molecular Mass</b>	57 kDa
<b>AA Sequence</b>	MRLPGAMPALALKGELLLLLLLLLLEPQISQGLVVTPPGPELVLNVSSTFVLTCGSA

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 45-1 Ramsey Road, Shirley, NY 11967, USA

PVWVERMSQEPPQEMAKAQDGTFSVLTLTNLTGLDTGEYFCTHNDSRGLETDER  
 KRLYIFVPDPTVGFLPNDAEELFIFLTEITEITIPCRVTDPLVVTLHEKKGVALPVPY  
 DHQRGFSGIFEDRSYICKTTIGDREVDSDAYVYRLQVSSINVSNAVQTVVRQGEN  
 ITLMCIVIGNEVVNFETYPRKESGRLVEPVTDFLLDMPYHIRSILHIPSAAELEDSTGY  
 TCNVTESVNDHQDEKAINITVVEGYSVRLLEGEVGTQFAELHRSRTLQVVFAYPPP  
 TVLWFKDNRTLGDSSAGEIALSTRNVSETRYVSELTIVRVKVAEAGHYTMRAFHE  
 AEVQLSFQLQINVPVRVLELSESHPDSTVRCRGRGMPQPNIWSACRDLKRCR  
 RELPPTLLGNSSEEEESQLETNVTYWEWEEQEFVSTLRLQHVDRPLSVRCTRLNAV  
 GQDTQEVIVPHSLPFKVVVISAILALVLTIIISLIILIMLWQKKPRYEIRWKVIESVSSD  
 GHEYIYVDPMLPYDSTWELPRDQLVLGRTLGSAGFGVVEATAHGLSHSQATMK  
 VAVKMLKSTARSSKQALMSELKIMSHLGPLHNVNLLGACTKGGPIYIITEYCRYGD  
 LVDYLHRNKHTFLQHHSDKRRPPSAELYSNALPVGLPLPSHVSLTGESDGGYMDMS  
 KDESVDYVPMMLDMKGDVKYADIESSNYMAPYDNYVPSAPERTCRATLINESPVLSY  
 MDLVGFSYQVANGMEFLASKNCVHRDLAARNVLICEGKLVKICDFGLARDIMRDSNY  
 ISKGSTFLPLKWMAPESIFNSLYTTLSVWSFGILLWEIFTLGGTPYPELPMNEQFYN  
 AIKRGYRMAQPAHASDEIYEIMQKCWEEKFEIRPPFSQLVLLERLLGEGYKKKYQQ  
 VDEEFLRSDHPAIRSQARLPGFHGLRSPLDTSSVLYTAVQPNEGDNNDYIPLDPKP  
 EVADEGPLEGSPSLASSTLNEVNTSSTISCDSPLEPQDEPEPEPEQLELQVEPEPELE  
 QLPDSGCPAPRAEAEDSFL

**Purity** > 98%

**Applications** WB; ELISA; FACS; FC

**Stability** This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term).  
 After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18  
 centigrade for future use.

**Storage** At -20 centigrade.

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<b>Concentration</b>	1 mg/mL
<b>Storage Buffer</b>	PBS (pH 7.4-7.5). Sterile-filtered colorless solution.
<b>Reconstitution</b>	Reconstitute in sterile distilled H <sub>2</sub> O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

## 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; PDGFR-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

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