

# Recombinant Human PDGFRB Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** PDGFRB-2137H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	PDGFRB MS Standard C13 and N15-labeled recombinant protein (NP_002600) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	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.
<b>Molecular Mass</b>	123.8 kDa
<b>AA Sequence</b>	MRLPGAMPALALKGELLLL SLLLLLEPQISQGLVVTTPPGPELVLNVSSTFVLTCGS SA PVVWERMSQEPPQEMAKAQDGTFSVLTLTNLTGLDTGEYFCTHNSRGLTDER

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KRLYIFVPDPTVGFLPNDAEELFIFLTEITEITIPCRVTD PQLVVTLHEKKGDVALPVPY  
 DHQRGFFGIFEDRSYICKTTIGDREVDSDAYYVYRLQVSSINVSNAVQTVVRQGENI  
 TLMCIVIGNEVVNFEWYPRKESGRLVEPVTD FLLDMPYHIRSILHIPS AELEDSGTYT  
 CNVTESVNDHQDEKAINITVVESGYVRL LGVGT LQFAELHRSRTLQVVF EAYPPPT  
 VLWFKDNRTLGDSSAGEIALSTRNVSETRYVSELT LVRVKVAEAGHYTMRAFHEDA  
 EVQLSFQLQINVPVRVLELSESHPD SGEQTVRCRGRGMPQPNI IWSACRDLKRCPR  
 ELPPTLLGNSSEEEESQLETNV TYWEEEQEF EVVSTLRLQH VDRPLSVRCTLRNAV G  
 QDTQEIVVPHSLPFKVVVISAILALV VLTIIISLIIMLWQK KPRYEIRWKVIESVSSDGH  
 EYIYVDPMQLPYDSTWELPRDQLVLGRTL GSGAFGQVVEATAHGLSHSQATMKVAV  
 KMLKSTARSSSEKQALMSELKIMSHL GPHLNVNLLGACTKGGPIYIITEYCRYGDLVD  
 YLHRNKHTFLQHHS DKRRPPSAELYSNALPVGLPLPSHVSLTGESDGGYMDMSKD  
 ESVDYVPMLDMKGDVKYADI ESSNYMAPYDNYVPSAPERTCRATLINESPVL SYMD  
 LVGFSYQVANGMEFLASKNCVHRDLAARNVLICEGKLVKICDFGLARDIMRDSNYIS  
 KGSTFLPLKWMAPESIFNSLYTTLS DVVWSFGILLWEIFTLGGTPYPELPMNEQFYNAI  
 KRGYRMAQPAHASDEIYEIMQKCWEEKFEIRPPFSQLVLLERLLGEGYKKKYQQVD  
 EEFLRSDH PAILRSQARLPGFHGLRSPLDTSSVLYTAVQPNEGDNDYIIPDPKPEV  
 ADEGPLEGSPSLASSTLNEVNTSSTISCDSPLEPQDEPEPEPQLELQVEPEPELEQL  
 PDSGCPAPRAEAEDSFLTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage** Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration** 50 µg/mL as determined by BCA

**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

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## GENE INFORMATION

**Gene Name** PDGFRB platelet derived growth factor receptor beta [ 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



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