

# Active Recombinant Full Length Human PDGFRB Protein, C-Flag-tagged

Cat. No. PDGFRB-544HFL Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Full Length Human PDGFRB Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
<b>Species</b>	Human
<b>Source</b>	Mammalian Cells
<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>	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
<b>Bio-activity</b>	PDGFRB activity verified in a biochemical assay: PDGFRB (platelet-derived growth factor receptor, beta polypeptide) activity was measured in a homogeneous time-

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resolved fluorescent (HTRF®) assay. PDGFRB is a cell surface tyrosine kinase receptor for members of the platelet-derived growth factor family. Varying concentrations of PDGFRB were added to a reaction mix containing ATP and a biotinylated kinase substrate and the reaction mixture was incubated to allow the protein to phosphorylate the tyrosine residue in the substrate. HTRF detection reagents were then added, and the time-resolved fluorescent signal was measured on a Flexstation 3 microplate reader. The time resolved fluorescent signal is expressed as “delta R” or “ΔR” and is a ratio calculated from the fluorescent emission intensities of the donor and acceptor fluors.

**Molecular Mass** 123.8 kDa

**AA Sequence**

MRLPGAMPALALKGELLLLLLLLLLEPQISQGLVVTTPGPELVLNVSSTFVLTCGSA  
 PVVWERMSEQEPP QEMAKAQDGTFFSSVLTLTNLTGLDTEYFCTHND SRGLETDER  
 KRLYIFVPDPTVGFLPNDAEELFIFLT EITEITIPCRVTD PQLVVTLHEKKGDVALPVPY  
 DHQRGFFGIFEDRSYICKTTIGDREVDSDAYVYRLQ VSSINVSVNAVQTVVRQGEN  
 ITLMCIVIGNEVVNFETYPRKESGRLVEPVTDFLLDMPYHIRSILHIPS AELEDSGT  
 YTCNVTESVNDHQDEKAINITVVEG YVRLLGVEVGT LQFAELHR SRTLQVVF EAYPPP  
 TVLW FKDNRTLGDSSAGEIALSTRNVSETRYVSELT LVRVKVAEAGHYTMRAFHE  
 AEVQLSFQLQINVPVRVL ELSE SHPDSGEQTVRCRGRGMPQPNIWSACRDLKRC  
 RELPPTLLGNSSEEEESQLETNVTYWEEEQEFE VVSTLRLQHVD RPLSVRCTLRNAV  
 GQDTQEVIVVPHSLPFKVVVISAILALVVLTIISLIILIMLWQKKP RYEIRWKVIESVSS  
 D GHEYIYVDP MQLPYDSTWELPRDQLVLGRTLGS GAFGQVVEATAHGLSHSQATMK  
 VAVKMLKSTAR SSEKQALMSELKIMSHLGPLHNVNLLGACTKGGPIIITEYCRYGD  
 LVDYLHRNKHTF LQHHS DKRRPPSAELYSNALPVGLPLPSHVSLTGESDGGYMDM  
 SKDESVDYVPMLDMKGDVKYADIESSN YMAPYDNYVPSAPERTCRATLINESPVL  
 S YMDLVGFSYQVANGMEFLASKNCVHRDLAARNVLICEGKLV KICDFGLARDIMRDS  
 NYISKGSTFLPLKWMAPESIFNSLYTTLS DVVWSFGILLWEIFTLGGTPYPELPMN EQF  
 YNAIKRGYRMAQPAHASDEIYEIMQKCWEEKFEIRPPFSQLVLLLERLLGEGYKKKY  
 QQVDEEFLRS DHPAILRSQARLPGFHGLRSPLDTSSVLYTAVQPNEGDN DYIIPLPD

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PKPEVADEGPLEGSPSLASSTLN  
 EVNTSSTISCDSPLEPQDEPEPEPQLELQVEPEPELEQLPDSGCPAPRAEAEDSFLT  
 RTRPLEQKLISEEDLAANDILDYKDDDDKV


<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining.
<b>Stability</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>Storage</b>	Store at -80 centigrade.
<b>Concentration</b>	>50 ug/mL as determined by microplate BCA method.
<b>Preparation</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Protein Families</b>	Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase, Transmembrane
<b>Protein Pathways</b>	Calcium signaling pathway, Colorectal cancer, Cytokine-cytokine receptor interaction, Focal adhesion, Gap junction, Glioma, MAPK signaling pathway, Melanoma, Pathways in cancer, Prostate cancer, Regulation of actin cytoskeleton
<b>Full Length</b>	Full L.

## GENE INFORMATION

<b>Gene Name</b>	PDGFRB platelet derived growth factor receptor beta [ Homo sapiens (human) ]
<b>Official Symbol</b>	PDGFRB
<b>Synonyms</b>	IMF1; KOGS; IBGC4; JTK12; PDGFR; PENTT; CD140B; PDGFR1; PDGFR-1

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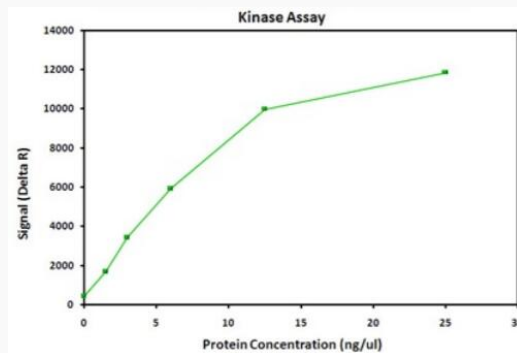
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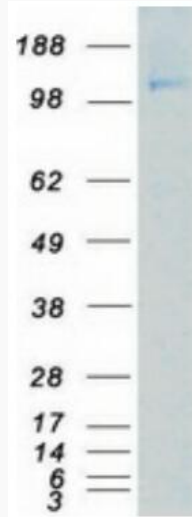
UniProt ID P09619




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Coomassie blue staining of purified PDGFRB protein.

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