

Recombinant Human Platelet-Derived Growth Factor Receptor, Beta Polypeptide, His-tagged

Cat. No. PDGFRB-1890H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanPDGFRB catalytic domain (amino acids 558-1106), His-tagged was expressed ininsect cells. Its molecular weight is 66300 Dalton.
Species	Human
Source	Insect Cells
ProteinLength	558-1106 a.a.
Description	PDGFRB is a receptortyrosine kinase and has been implicated in atherogenesis and in celltransformation by the SIS oncogene. No special measures were taken toactivate this kinase. PDGFRB encodes a cell surface tyrosine kinase receptorfor members of the platelet-derived growth factor family. These growthfactors are mitogens for cells of mesenchymal origin. The identity of thegrowth factor bound to a receptor monomer determines whether the functionalreceptor is a homodimer or a heterodimer, composed of both platelet-derivedgrowth factor receptor alpha and beta polypeptides. PDGFRB is flanked onchromosome 5 by the genes for granulocyte-macrophage colony-stimulatingfactor and macrophage-colony stimulating factor receptor; all three genes maybe implicated in the 5-q syndrome.
Form	Liquid in 50 mMTris, pH 7.5 + 150 mM NaCl + 0.5 mM EDTA + 0.02% Triton X-100 + 2 mM DTT +50% glycerol.
Molecular Weight	66.3 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

Storage	Stable for 6 months in working aliquots at -80°C. Avoid repeated freeze-thaw cycles.
Official Symbol	PDGFRB
GENE INFORMATION	
Gene Name	PDGFRB platelet-derived growth factor receptor, beta polypeptide [Homo sapiens]
Synonyms	PDGFRB; platelet-derived growth factor receptor, beta polypeptide; JTK12; PDGFR; CD140B; PDGFR1; platelet-derived growth factor receptor beta; PDGF-R-beta; CD140 antigen-like family member B; EC 2.7.10.1; CD140b; PDGF-R-beta; CD140b antigen; soluble PDGFRb variant; Beta-type platelet-derived growth factor receptor
Gene ID	5159
mRNA Refseq	NM_002609
Protein Refseq	NP_002600
MIM	173410
UniProt ID	P09619
Chromosome Location	5q33.1
Pathway	Calcium signaling pathway; Cytokine-cytokine receptor interaction; Downstream signal transduction; Focal adhesion; Gap junction; Glioma; HTLV-I infection; MAPK signaling pathway; Melanoma; Pathways in cancer; PDGFR-alpha signaling pathway; Regulation of actin cytoskeleton; Signaling by PDGF; S1P1

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pathway;S1P3 pathway

Function

ATP binding; growthfactor binding; nucleotide binding; platelet activating factor receptoractivity; platelet-derivedgrowth factor alpha-receptor activity; platelet-derived growth factorbinding; platelet-derived growth factor receptor binding; proteinhomodimerization activity; platelet-derived growth factor-activated receptoractivity; protein binding; protein tyrosine kinase activity; receptoractivity; receptor bingding; signal transducer activity; vascular endothelialgrowth factor-activated receptor activity

Ribbon image of twomolecules of human PDGF receptor beta (yellow and magenta) in complex withdimeric PDGFRB (cyan and green).

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