

## Recombinant Human PDGFRB Protein

Cat. No. PDGFRB-050H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant human Platelet-derived growth factor BB ( rhPDGF-BB ) Ser 82-Ile191 (Accession # AAH29822) was expressed in human 293 cells (HEK293).

**Species** Human

**Source** HEK293

**ProteinLength** 82-191 a.a.

**Description** This gene encodes 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 or a heterodimer, composed of both platelet-derived growth factor receptor alpha and beta polypeptides. 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 translocation, ETV6, leukemia gene, results in chronic myeloproliferative disorder with eosinophilia. [provided by RefSeq, Jul 2008]

**Molecular Mass** rhPDGF-BB is a homodimeric, glycosylated, polypeptide chain containing 2×10<sup>9</sup> amino acids, and has a calculated MW of 25 kDa. In DTT-reduced SDS-PAGE, rhPDGF-BB protein migrates as 12.8 kDa poly peptide due to glycosylation.

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<b>Endotoxin</b>	Less than 0.01 ng endotoxin/ 1 g rhPDGF-BB.
<b>Purity</b>	>95% as determined by SDS-PAGE. All lots are greater than 95% pure.
<b>Notes</b>	Research Use Only. Not for use in diagnostic or therapeutic procedures.
<b>Storage</b>	Store at -20 centigrade in lyophilized state after receipt. For long term storage, upon reconstitution rhSCF should be aliquot and store at -20 centigrade or -8 centigrade centigrade. Avoid repeated freeze-thaw cycles.
<b>Storage Buffer</b>	Bulk protein in a 0.22 µ filtered solution of PBS, pH 7.4 and delivered as liquid formulation or lyophilized powder. Normally 5-8% trehalose and mannitol are added as protectants before lyophilization.

## GENE INFORMATION

<b>Gene Name</b>	PDGFRB platelet-derived growth factor receptor, beta polypeptide [ Homo sapiens ]
<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; PDGF-R-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

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<b>MIM</b>	173410
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<b>UniProt ID</b>	P09619
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