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 2×109 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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Endotoxin	Less than 0.01 ng endotoxin/ 1 μg rhPDGF-BB.
Purity	>95% as determined by SDS-PAGE. All lots are greater than 95% pure.
Notes	Research Use Only. Not for use in diagnostic or therapeutic procedures.
Storage	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.
Storage Buffer	Bulk protein in a 0.22 μm 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

Gene Name	PDGFRB platelet-derived growth factor receptor, beta polypeptide [Homo sapiens]
Official Symbol	PDGFRB
Synonyms	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;
Gene ID	5159
mRNA Refseq	NM_002609
Protein Refseq	NP_002600

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MIM	173410
UniProt ID	P09619

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