

Recombinant Human PDGFRB

Cat. No. PDGFRB-1675H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human platelet-derived growth factor receptor, beta polypeptide was expressed in <i>NSO Cells</i> . The DNA sequence encoding the extracellular domain of human PDGF R β (aa residues 1 - 530) was fused to the Fc region of human IgG1 (containing ENIEGR added at the amino-terminus and 6 histidine residues added at the carboxy-terminus of the IgG1).
Species	Human
Source	Mammalian Cells
Protein Length	1-530 a.a.
Description	Platelet-derived growth factor receptor- β (PDGFR β) is a well-characterized plasma membrane receptor with endogenous tyrosine kinase activity, which is autophosphorylated in response to binding of dimeric platelet-derived growth factor (PDGF) ligand. PDGFR β mediates signaling important for the proliferation, migration, and survival of mesenchymal cells. PDGFR β is found in all cell types and is activated in breast carcinoma cells and indicate a possible role of the receptor in breast cancerogenesis.
Molecular Weight	The predicted molecular weight of Recombinant Human PDGF R β is 84 kDa. However, the actual molecular weight as observed by migration on SDS Page is 150 kDa.

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State Of Matter	Lyophilized.
Formulation	0.2 µm filtered and lyophilized from PBS.
Purity	>97% by SDS Page and analyzed by silver stain.
Endotoxin	<1.0 EU/g as determined by the LAL method.
Biological Activity	The biological activity of Human PDGF Rβ was determined by its ability to inhibit the PDGF-BB induced 3H-thymidine incorporation in the NR6R-3T3 fibroblast cell-line (Raines, E.W. et al., 1985, Methods Enzymol. 109:749). The ED50 for this effect is typically 1 - 3 µg/ml in the presence of 4 ng/ml rhPDGF-BB.
Storage	This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions.

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 1
Gene ID	5159

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mRNA Refseq	NM_002609
Protein Refseq	NP_002600
MIM	173410
UniProt ID	P09619
Chromosome Location	5q33.1
Pathway	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
Function	ATP binding; nucleotide binding; platelet activating factor receptor activity; platelet-derived growth factor beta-receptor activity; platelet-derived growth factor receptor binding; receptor activity; transferase activity; vascular endothelial growth factor receptor activity