

PDGFR beta Recombinant Protein | CD140b recombinant protein

Rat PDGFR beta Recombinant

CATALOG #	HOST
AAA76115	N/A (Host protein expression may be lot-specific and can be subject to change during production, including bulk orders)

PRODUCT SYNONYMS

PDGFR beta; Rat PDGFR beta Recombinant; Rat CD140b Recombinant (PDGF Receptor beta) ; cd-140 PDGFRB; CD140B; MGC74795; PDGFR2; Rhe-PDGFRB
PDGF Receptor alpha; pdgf-r; CD140b recombinant protein

PRODUCT SPECIFICATIONS

Host	N/A (Host protein expression may be lot-specific and can be subject to change during production, including bulk orders)
Purity/Purification	>95%, as determined by SDS-PAGE and HPLC
Form/Format	Recombinant PDGFR beta is supplied as a 0.2 um filtered PBS solution, pH7.2.
Sequence Length	1097
Domain	Ig-like C2
Source	HEK293 Cells
Source Note	Optimized DNA sequence encoding extracellular domain of rat PDGFR beta ncluding a C-terminal 6His tag was expressed in HEK293 cells.
Endotoxin	Endotoxin content was assayed using a LAL gel clot method. Endotoxin level was found to be less than 0.1 ng/ug (1EU/ug).
Molecular Weight Note	Recombinant rat PDGF-R beta is a monomer protein consisting of 510 amino acid residue subunits, due to glycosylation migrates as an approximately 100 kDa protein on SDS-PAGE.
Preparation and Storage	The lyophilized protein is stable for at least 2 years from date of receipt at -20 degree C. Upon reconstitution, this cytokine can be stored in working aliquots at 2 degree to 8 degree C for one month, or at -20 degree C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for CD140b recombinant protein	The PDGFR/PDGF system includes two receptors (PDGFRA and PDGFRB) and four ligands (PDGFA, PDGFB, PDGFC, and PDGFD). Ligand binding induces receptor dimerization, enabling autophosphorylation of specific tyrosine residues and subsequent recruitment of a variety of signal transduction molecules. PDGFR regulates normal cellular growth and differentiation, and expression of activated PDGFR promotes oncogenic transformation, suggesting that activating mutations or gene rearrangements could play a role in human tumorigenesis. Numerous in vitro and in vivo studies showed that inhibition of PDGFRA signaling disrupts cancer cell survival in the subset of GISTs with activating PDGFRA mutations.
Product Categories/Family for CD140b recombinant protein	Receptors CD

References	• hydrophobic matching controls the tilt and stability of the dimeric platelet-derived growth factor receptor (pdgfr) ? transmembrane segment .J. Biol. Chem., Jul 2012; 287: 26178 - 26186. • <i>pdgfr? expression and function in fibroblasts derived from pluripotent cells is linked to dna demethylation</i> .J. Cell Sci., May 2012; 125: 2276 - 2287. • <i>pdgf-induced migration of vascular smooth muscle cells is inhibited by heme oxygenase-1 via vegfr2 upregulation and subsequent assembly of inactive vegfr2/pdgfr? heterodimers</i> .Arterioscler Thromb Vasc Biol, May 2012; 32: 1289 - 1298. • <i>a viable mouse pdgfr-beta mutant exhibits cns-restricted pericyte deficiency and blood brain barrier defects</i> .Invest. Ophthalmol. Vis. Sci., Mar 2012; 53: 2558. • <i>the leukemia-associated fusion protein tel-platelet-derived growth factor receptor ? (tel-pdgfr?) inhibits transcriptional repression of ptpn13 gene by interferon consensus sequence binding protein (icsbp)</i> .J. Biol. Chem., Mar 2012; 287: 8110 - 8125.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	29789275
NCBI GeneID	24629
NCBI Accession #	NP_113713.1
NCBI GenBank Nucleotide #	NM_031525.1
UniProt Accession #	Q05030; Q8R406; Q925F7
NCBI Official Full Name	platelet-derived growth factor receptor beta
UniProt Protein Name	Platelet-derived growth factor receptor beta
UniProt Gene Name	Pdgfrb
UniProt Synonym Gene Names	Pdgfr; Pdgfr1; PDGF-R-beta; PDGFR-beta; PDGFR-1
UniProt Entry Name	PGFRB_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/pdgfrb-recombinant-protein/76115>