**Product** Data Sheet

**Proteins** 





## PDGF R beta Protein, Human (HEK293, C-His-Avi)

Cat. No.: HY-P77123

Synonyms: Platelet-derived growth factor receptor beta; PDGF-R-beta; PDGFR-1; CD140b; PDGFRB

Species: Source: HEK293

Accession: P09619 (L33-F530)

Gene ID: 5159

Molecular Weight: 78-115 kDa

## **PROPERTIES**

AA Sequence				
AA Sequence	LVVTPPGPEL	VLNVSSTFVL	TCSGSAPVVW	ERMSQEPPQE
	MAKAQDGTFS	SVLTLTNLTG	LDTGEYFCTH	NDSRGLETDE
	RKRLYIFVPD	PTVGFLPNDA	EELFIFLTEI	TEITIPCRVT
	DPQLVVTLHE	KKGDVALPVP	YDHQRGFSGI	FEDRSYICKT
	TIGDREVDSD	AYYVYRLQVS	SINVSVNAVQ	TVVRQGENIT
	LMCIVIGNEV	VNFEWTYPRK	ESGRLVEPVT	DFLLDMPYHI
	RSILHIPSAE	LEDSGTYTCN	VTESVNDHQD	EKAINITVVE
	SGYVRLLGEV	GTLQFAELHR	SRTLQVVFEA	YPPPTVLWFK
	DNRTLGDSSA	GEIALSTRNV	SETRYVSELT	LVRVKVAEAG
	HYTMRAFHED	AEVQLSFQLQ	INVPVRVLEL	SESHPDSGEQ
	TVRCRGRGMP	QPNIIWSACR	DLKRCPRELP	PTLLGNSSEE
	ESQLETNVTY	WEEEQEFEVV	STLRLQHVDR	PLSVRCTLRN
	AVGQDTQEVI	VVPHSLPF		
Biological Activity Immobilized Human PDGF R beta, His Tag at 0.5 µg/mL (100 µl/well) on the plate. Dose response curve for An				
biological Activity	Antibody, hFc Tag with the EC <sub>50</sub> of ≤11 ng/mL determined by ELISA.			
	And a south and the control of the determined by the south			
Appearance	Lyophilized powder.			
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before			
	lyophilization.			
Endotoxin Level	4 FIV and the control of the LAL control			
Endotoxin Level	<1 EU/µg, determined by LAL method.			
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> O.			
Reconstitution	it is not recommended to reconstitute to a concentration less than 100 µg/mL in ddm <sub>2</sub> O.			
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is			
Storage & Stability	recommended to freeze aliquots at -20°C or -80°C for extended storage.			
	recommended to neeze anquots at -20 e of -00 e for extended storage.			
Shipping	Room temperature in continental US; may vary elsewhere.			
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## **DESCRIPTION**

## Background

The receptor described in the text is the platelet-derived growth factor receptor alpha (PDGFRA). PDGFRA is involved in various cellular processes, including embryonic development, cell proliferation, survival, differentiation, chemotaxis, migration, and blood vessel development. It plays a crucial role in the recruitment of pericytes and smooth muscle cells to endothelial cells, as well as in the migration of vascular smooth muscle cells and the formation of neointima at vascular injury sites. PDGFRA is required for normal development of the cardiovascular system and for the formation of a branched network of capillaries in kidney glomeruli. It promotes rearrangement of the actin cytoskeleton and the formation of membrane ruffles. Binding of its ligands, including homodimeric PDGFB, heterodimers formed by PDGFA and PDGFB, or homodimeric PDGFD, leads to the activation of several signaling cascades. PDGFRA phosphorylates various downstream effectors, including PLCG1, PIK3R1, PTPN11, RASA1/GAP, CBL, SHC1, NCK1, PDCD6IP/ALIX, and STAM. The receptor signaling is regulated by protein phosphatases that dephosphorylate the receptor and its downstream effectors, as well as by the rapid internalization of the activated receptor.

Caution: Product has not been fully validated for medical applications. For research use only.

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