

Recombinant Protein Technical Manual Recombinant Human PDGFRa/CD140a Protein (His Tag) RPES0498

Product Data:

Product	SKU:	RPES0498
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Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P16234

Dro	toin	Inform	nation:
FIU	UEIII		nation.

Molecular Mass:	57 kDa
AP Molecular Mass:	93 kDa
Tag:	C-His
Bio-activity:	
Purity:	> 95% as determined by reducing SDS-PAGE.
Endotoxin:	< 1.0 EU per μg as determined by the LAL method.
Storage:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping:	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation:	Lyophilized from a 0.2 μ m filtered solution of PBS, pH7.4.
Reconstitution:	Please refer to the printed manual for detailed information.
Application:	
Synonyms:	CD140A;PDGFR-2;PDGFR2;RHEPDGFRA;Platelet-derived growth factor receptor alpha; PDGFR-alpha; Alpha platelet-derived growth factor receptor;CD140 antigen-like family member A; Platelet-derived growth factor alpha receptor; Platelet-derived growth factor receptor 2

Sequence: Gln24-Glu524

Background:

Platelet-derived Growth Factor Receptor Alpha (PDGF Rα) is an enzyme that belongs to the class III subfamily of receptor tyrosine kinases. It is a type I transmembrane glycoprotein, and can form homo- or heterodimeric receptors when engaged by dimers of the PDGF family of growth factors, PDGF Rα is strongly expressed in oligodendrocyte, lung, skin and intestinal progenitor cells and induced by inflammation or growth in culture, but is lowly expressed in most mesenchymal cells. PDGF Rα autophosphorylates upon dimerization, activating signaling cascades in PI-3kinase Ras-MAP kinase, and PLC-γ pathways. PDGF Rα has infulence on local gradients of epithelially produced PDGF-AA or PDGF-CC during formation of the cranial ,cardiac neural crest and interstitial kidney mesenchyme.