

Recombinant Human PDGFR α /CD140a Protein (His Tag)



Catalog Number:PKSH033564

Note: Centrifuge before opening to ensure complete recovery of vial contents.

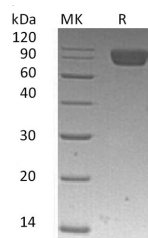
Description

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
Species	Human
Expression Host	HEK293 Cells
Sequence	Gln24-Glu524
Accession	P16234
Calculated Molecular Weight	57.0 kDa
Observed molecular weight	93 kDa
Tag	C-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μ g of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°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, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Platelet-derived Growth Factor Receptor Alpha (PDGF R α) 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 hetero-dimeric receptors when engaged by dimers of the PDGF family of growth factors. PDGF R α 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 R α autophosphorylates upon dimerization, activating signaling cascades in PI-3kinase Ras-

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MAP kinase, and PLC- γ pathways. PDGF R α has influence on local gradients of epithelially produced PDGF-AA or PDGF-CC during formation of the cranial ,cardiac neural crest and interstitial kidney mesenchyme.

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