

Recombinant Human PDGFR α /CD140a Protein (His & GST Tag)(Active)



Catalog Number:PKSH030409

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

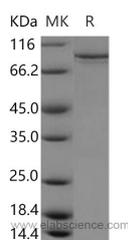
Description

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	Baculovirus-Insect Cells
Sequence	Gln551-Leu1089
Accession	P16234-1
Calculated Molecular Weight	89.2 kDa
Observed molecular weight	92 kDa
Tag	N-His-GST
Bioactivity	The specific activity was determined to be 8 nmol/min/mg using MBP as substrate.

Properties

Purity	> 90 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μ g as determined by the LAL method.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.
Formulation	Supplied as sterile 20mM Tris, 500mM NaCl, pH 7.4, 10% gly, 3mM DTT
Reconstitution	Not Applicable

Data



Background

PDGFRA, also known as CD140a, together with the structurally homolog protein PDGFRB (CD140b), are cell surface receptors for members of the platelet-derived growth factor family. They are members of the class III subfamily of receptor tyrosine kinase (RTKs) with the similar structure characteristics of five immunoglobulin-like domains in their extracellular region and a split kinase domain in their intracellular region. PDGFRA is expressed in oligodendrocyte progenitor cells and mesothelial cell, and binds all three ligand isoforms PDGF-AA, PDGF-BB and PDGF-AB with high affinity, whereas PDGFRB dose not bind PDGF-AA. PDGFRA plays an essential role in regulating proliferation, chemotaxis and migration of mesangial cells. Recent studies have indicated that PDGFRA acts as a critical mediator of signaling in testis organogenesis and Leydig cell differentiation, and in addition, particularly important for kidney

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development. Additionally, PDGFRA is involved in tumor angiogenesis and maintenance of the tumor microenvironment and has been implicated in development and metastasis of Hepatocellular carcinoma (HCC). PDGFRA may represent a potential therapeutic target in thymic tumours. PDGFRA gene amplification rather than gene mutation may be the underlying genetic mechanism driving PDGFRA overexpression in a portion of gliomas.

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