

PDGFRa / CD140a active protein

Recombinant Human PDGFRa / CD140a Protein (His tag)

CATALOG #
AAA173562

HOST
Human Cells

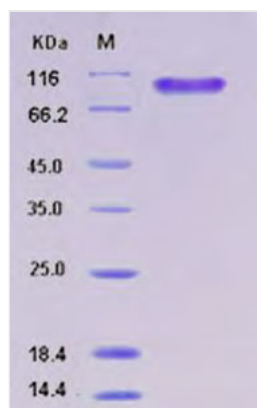
PRODUCT SYNONYMS

PDGFRa / CD140a; Recombinant Human PDGFRa / CD140a Protein (His tag); PDGFRA; CD140a; MGC74795; PDGFR2; Rhe-PDGFRa; PDGFRa / CD140a active protein

PRODUCT SPECIFICATIONS

Host	Human Cells
Purity/Purification	> 97 % as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS,pH 7.4, 5% Trehalose, 5% mannitol, 0.01 Tween-80
Sequence Length	1089
Source	Human
Predicted N Terminal	Gln 24
Bio-Activity	Measured by its ability to bind human PDGFC-Fc in functional ELISA.
Endotoxin	< 1.0 EU per ug of the protein as determined by the LAL method
Reconstitution	It is recommended that sterile water (200uL) be added to the vial to prepare a stock solution of 0.25 mg/mL. Concentration is measured by UV-Vis.
Preparation and Storage	Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

IMAGES



Application Data
SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for PDGFRA / CD140a active protein	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 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. Description: A DNA sequence encoding the extracellular domain (Met 1-Glu 524) of human PDGFRalpha (NP_006197.1) was fused with a polyhistidine tag at the C-terminus.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	5453870
NCBI GeneID	5156
NCBI Accession #	NP_006197.1
NCBI GenBank Nucleotide #	NM_006206.5
UniProt Accession #	P16234; Q6P4H5; Q96KZ7; Q9UD28; B2RE69; E9PBH0
NCBI Official Full Name	platelet-derived growth factor receptor alpha isoform 1
NCBI Official Synonym Full Names	platelet derived growth factor receptor alpha
NCBI Official Symbol	PDGFRA
NCBI Official Synonym Symbols	CD140A; PDGFR2; PDGFR-2
NCBI Protein Information	platelet-derived growth factor receptor alpha
UniProt Protein Name	Platelet-derived growth factor receptor alpha
UniProt Gene Name	PDGFRA
UniProt Synonym Gene Names	PDGFR2; RHEPDGFRA; PDGF-R-alpha; PDGFR-alpha; PDGFR-2

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.