

PDGFR alpha Active Protein | CD140a active protein

Human PDGFR alpha Recombinant

CATALOG #	HOST
AAA76058	HEK293 Cells (Host protein expression may be lot-specific and can be subject to change during production, including bulk orders)

PRODUCT SYNONYMS

PDGFR alpha; Human PDGFR alpha Recombinant; Human CD140a Recombinant (PDGF Receptor alpha) ; cd-140 PDGFRA; CD140A; MGC74795; PDGFR2; Rhe-PDGFR PDGF Receptor alpha; pdgf-r; CD140a active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells (Host protein expression may be lot-specific and can be subject to change during production, including bulk orders)
Purity/Purification	>95%, as determined by SDS-PAGE and HPLC
Form/Format	Recombinant CD140a is supplied as a 0.2 um filtered PBS solution, pH7.2.
Sequence Length	1089
Biological Activity	The Activity was measured by the ability to bind human PDGFC-Fc in functional ELISA.
Domain	Ig-like C2
Host Note	Optimized DNA sequence encoding Human extracellular domain of human PDGF-R alpha including a C-terminal 6His tag was expressed in HEK293 cells.
Endotoxin	Endotoxin content was assayed using a LAL gel clot method. Endotoxin level was found to be less than 0.1 ng/ug (1EU/ug).
Molecular Weight Note	Recombinant PDGFRa is a monomer protein consisting of 510 amino acid residue subunits, due to glycosylation migrates as an approximately 90-100 kDa protein on SDS-PAGE.
Preparation and Storage	Recombinant CD140a, as supplied, can be stored in working aliquots at 2 degree - 8 degree C for one month, or at -20 degree C to -70 degree C for twelve months. Avoid repeated freeze/thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for CD140a active protein	The PDGFR/PDGF system includes two receptors (PDGFRA and PDGFRB) and four ligands (PDGFA, PDGFB, PDGFC, and PDGFD). Ligand binding induces receptor dimerization, enabling autophosphorylation of specific tyrosine residues and subsequent recruitment of a variety of signal transduction molecules. PDGFR regulates normal cellular growth and differentiation, and expression of activated PDGFR promotes oncogenic transformation, suggesting that activating mutations or gene rearrangements could play a role in human tumorigenesis. Numerous in vitro and in vivo studies showed that inhibition of PDGFRA signaling disrupts cancer cell survival in the subset of GISTs with activating PDGFRA mutations.
Product Categories/Family for CD140a active protein	Receptors CD

References	• pdgfralpha signaling in the primary cilium regulates nhe1-dependent fibroblast migration via coordinated differential activity of mek1/2-erk1/2-p90rsk and akt signaling pathways .J. Cell Sci., Dec 2012; 10.1242/jcs.116426. • functional expression of sk channels in murine detrusor pdgfralpha+ cells .J. Physiol., Dec 2012; 10.1113/jphysiol.2012.241505. • pdgfralpha and cd51 mark human nestin+ sphere-forming mesenchymal stem cells capable of robust hematopoietic stem cell expansion .Blood (ASH Annual Meeting Abstracts), Nov 2012; 120: 505. • candidate human primary mesenchymal stem/progenitor cells are highly enriched in linneg/cd45neg/cd271pos/pdgfralphaneg bone marrow cells .Blood (ASH Annual Meeting Abstracts), Nov 2012; 120: 3460. • stromal platelet-derived growth factor receptor alpha (pdgfralpha) provides a therapeutic target independent of tumor cell pdgfralpha expression in lung cancer xenografts .Mol. Cancer Ther., Nov 2012; 11: 2473 - 2482.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	5453870
NCBI GeneID	5156
NCBI Accession #	NP_006197.1
NCBI GenBank Nucleotide #	NM_006206.4
UniProt Accession #	P16234; Q6P4H5; Q96KZ7; Q9UD28; B2RE69; E9PBH0
NCBI Official Full Name	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
UniProt Entry Name	PGFRA_HUMAN

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.

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Online datasheet: <https://stage.aaabiotech.com/hek293-cells-cd140a-active-protein/pdgfr-alpha/76058>