

PDGF-C Active Protein | PDGFC active protein

PDGF-C Protein, Mouse, Recombinant (hFc Tag)

CATALOG #
AAA258164

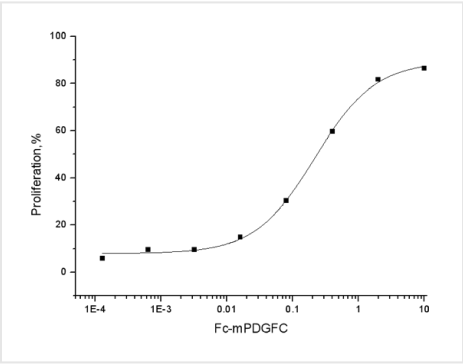
HOST
HEK293 Cells

PRODUCT SYNONYMS

PDGF-C; PDGF-C Protein; Mouse; Recombinant (hFc Tag); Mouse PDGF-C/SCDGF Protein (Fc Tag); 1110064L01Rik Protein; A1647969 Protein; platelet derived growth factor C; PDGFC active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>80% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Val235-Gly 345
Species	Mouse
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Glu
Tag	N-human IgG1-Fc
Protein Construction	A DNA sequence encoding the receptor-binding form of mouse PDGFC (Q8CI19)(Val 235-Gly 345) was fused with the Fc region of human IgG1 at the N-terminus.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Activity	1. Measured by its binding ability in a functional ELISA. 2. Immobilized mouse PDGF-C at 10ug/mL (100uL/well) can bind human PDGFRA. The EC50 of human PDGFRA is 0.71ug/mL. 3. Measured in a cell proliferation assay using Balb/3T3 mouse embryonic fibroblast cells. The ED50 for this effect is typically 0.5-2ug/mL.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.



SDS-PAGE

Application Data
Measured in a cell proliferation assay using Balb/3T3 mouse embryonic fibroblast cells. The ED50 for this effect is typically 0.5-2 ug/mL.

ADDITIONAL INFORMATION

Related Product Information for PDGFC active protein	Background: PDGF-C is a member of the PDGF/VEGF family of growth factors with a unique domain organization and expression pattern. Platelet-derived growth factor receptors (PDGFRs) are catalytic receptors that have intracellular tyrosine kinase activity. They have roles in the regulation of many biological processes including embryonic development, angiogenesis, cell proliferation and differentiation, and contribute to the pathophysiology of some diseases, including cancer. There are two isoforms of the PDGFR receptor; PDGFRalpha and PDGFRbeta, which can form homo- or heterodimers. The endogenous PDGFR ligands are PDGF-A, -B, -C and -D, which induce receptor dimerization and transphosphorylation at specific tyrosine residues upon binding. This activates the intracellular kinase activity, initiating intracellular signaling through the MAPK, PI 3-K and PKCgamma pathways. PDGF-C acts as a specific ligand for alpha platelet-derived growth factor receptor homodimer, and alpha and beta heterodimer. Binding of this growth factor to its affinity receptor elicits a variety of cellular responses. PDGF-C appears to be involved in the three stages of wound healing: inflammation, proliferation and remodeling. PDGF-C is involved in fibrotic processes, in which transformation of interstitial fibroblasts into myofibroblasts plus collagen deposition occurs.
References	Li X, et al. (2000) PDGF-C is a new protease-activated ligand for the PDGF alpha-receptor. Nat Cell Biol. 2 (5): 302-9. Ding H, et al. (2004) A specific requirement for PDGF-C in palate formation and PDGFR-alpha signaling. Nat Genet. 36 (10): 1111-6. Choi SJ, et al. (2009) The PDGF-C regulatory region SNP rs28999109 decreases promoter transcriptional activity and is associated with CL/P. European Journal of Human Genetics. 17 (11): 774-84.

NCBI AND UNIPROT INFORMATION

NCBI GI #	10242385
NCBI GeneID	54635
NCBI Accession #	NP_064355.1
NCBI GenBank Nucleotide #	NM_019971.2
UniProt Accession #	Q8CI19; Q99JM4; Q9JHV8; Q9QY71
Molecular Weight	38,741 Da
NCBI Official Full Name	platelet-derived growth factor C
NCBI Official Synonym Full Names	platelet-derived growth factor, C polypeptide
NCBI Official Symbol	Pdgfc
NCBI Official Synonym Symbols	PDGF-C; AI647969; 1110064L01Rik
NCBI Protein Information	platelet-derived growth factor C
UniProt Protein Name	Platelet-derived growth factor C

UniProt Gene Name	Pdgfc
UniProt Synonym Gene Names	Scdgf; PDGF-C; SCDGF; PDGFC latent form; PDGFC receptor-binding form

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-pdgfc-active-protein/pdgf-c/258164>