

PDGFRA active protein

Recombinant PDGFRA (550-1089) protein

CATALOG # AAA60339	HOST Baculovirus
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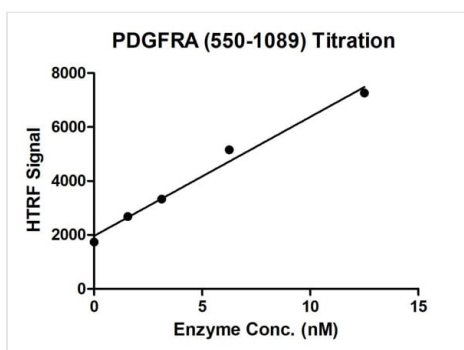
PRODUCT SYNONYMS

PDGFRA; Recombinant PDGFRA (550-1089) protein; Platelet Derived Growth Factor Receptor Alpha; PDGFRA active protein

PRODUCT SPECIFICATIONS

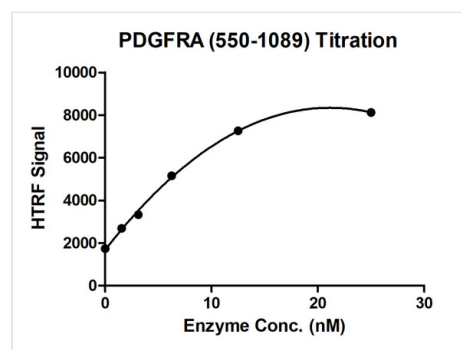
Host	Baculovirus
Purity/Purification	>85%
Form/Format	Recombinant PDGFRA (550-1089) protein is supplied in 25 mM HEPES NaOH pH 7.5, 300 mM NaCl, 10% glycerol, 0.04% Triton X-100, 0.5 mM TCEP.
Protein Species	Human
Tag	DYKDDDDK-Tag
Protein Details	Recombinant PDGFRA (550-1089) protein that includes amino acids 550-1089 of human PDGFRA protein (accession number NP_001334758.1) was expressed in a baculovirus expression system, and contains an N-terminal DYKDDDDK tag. The molecular weight of the protein is 62.8 kDa.
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.

IMAGES



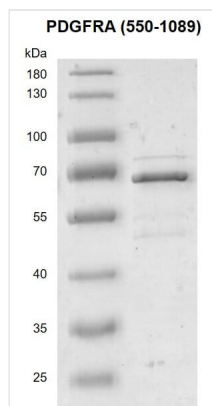
Bioactivity

HTRF Assay for Recombinant PDGFRA (550-1089) activity. 1 μ M TK substrate was incubated with different concentrations of PDGFRA (550-1089) protein in 10 μ l reaction system containing 1 $\times$ Enzymatic Buffer, 5 mM MgCl₂, 1 mM DTT, 5 nM SEB and 100 μ M ATP for 1 hour. The 10 μ l detection reagents containing anti-STK antibody (1:2) and SA-XL665 (1:100) diluted with 1 $\times$ Detection Buffer were added and incubated with the reactions for 30 min. All the operations and reactions were performed at room temperature. HTRF assay was used for detection.



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SDS-PAGE

Recombinant PDGFRA (550-1089) protein gel 10% SDS-PAGE gel with Coomassie blue staining MW: 62.8 kDa Purity: >85%

ADDITIONAL INFORMATION

Related Product Information for PDGFRA active protein

PDGFRA (Platelet Derived Growth Factor Receptor Alpha), a tyrosine-protein kinase that acts as a cell surface receptor for PDGFA, PDGFB and PDGFC and plays an essential role in the regulation of embryonic development, cell proliferation, survival, and chemotaxis. Depending on the context, PDGFRA promotes or inhibits cell proliferation and cell migration and plays an important role in the differentiation of bone marrow-derived mesenchymal stem cells. PDGFRA phosphorylates PIK3R1, PLCG1, and PTPN11. Activation of PLCG1 leads to the production of the cellular signaling molecules diacylglycerol and inositol 1,4,5-trisphosphate, mobilization of cytosolic Ca (2+) and the activation of protein kinase C. PDGFRA phosphorylates PIK3R1, the regulatory subunit of phosphatidylinositol 3-kinase, and thereby mediates activation of the AKT1 signaling pathway. This protein also mediates activation of HRAS and of the MAP kinases MAPK1/ERK2 and/or MAPK3/ERK1 and promotes activation of STAT family members STAT1, STAT3 and STAT5A and/or STAT5B.

Product Categories/Family for PDGFRA active protein

Kinase; Recombinant Proteins

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/baculovirus-active-protein/pdgfra/60339>