

PDGFRA recombinant protein

Recombinant PDGFRA (550-1089, D842V) protein

CATALOG #
AAA60387

HOST
Baculovirus

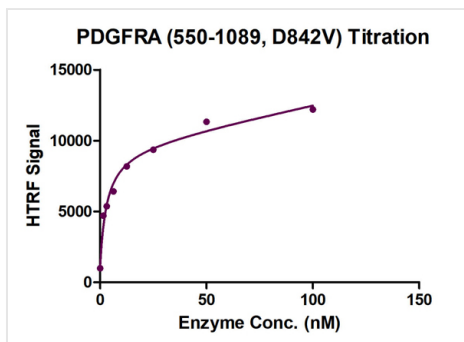
PRODUCT SYNONYMS

PDGFRA; Recombinant PDGFRA (550-1089; D842V) protein; Platelet Derived Growth Factor Receptor Alpha; CD140A; PDGFR-2; PDGFRA recombinant protein

PRODUCT SPECIFICATIONS

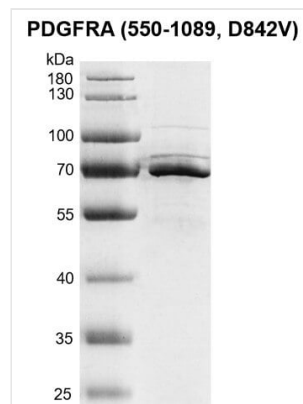
Host	Baculovirus
Form/Format	Recombinant PDGFRA (550-1089, D842V) protein is supplied in 25 mM HEPES pH 7.5, 300 mM NaCl, 20% glycerol, 0.04% Triton X-100, 0.5 mM TCEP.
Protein Species	Human
Protein Details	Recombinant PDGFRA (550-1089, D842V) protein that includes amino acids 550-1089 of human PDGFRA protein (accession number NP_001334758.1) with an D842V mutation was expressed in a baculovirus expression system and contains an N terminal DYKDDDDK tag. The molecular weight of the protein is 62.85kDa.
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



Application Data

HTRF assay for PDGFRA (550-1089, D842V) activity 1uM TK substrate was incubated with different concentrations of PDGFRA (550-1089, D842V) protein in 10ul reaction system containing 1xEnzymatic Buffer, 5 mM MgCl₂, 1 mM MnCl, 1 mM DTT, 5 nM SEB and 100uM ATP for 1 hour. Then 10ul detection reagents containing anti-TK antibody (1:2) and SA-XL665 (1:100) diluted with 1x 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.



SDS-PAGE

Recombinant PDGFRA protein gel. 10% SDS-PAGE gel stained with Coomassie Blue. MW: 62.85 Purity: >85%

ADDITIONAL INFORMATION

Related Product Information for PDGFRA recombinant 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 recombinant protein	Kinase; Recombinant Proteins

NCBI AND UNIPROT INFORMATION

Molecular Weight	62.85kDa
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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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/pdgfra-recombinant-protein-baculovirus/60387>