

Recombinant PDGFR α protein

Catalog No: 31190

Quantity: 10 μ g

Expressed In: Baculovirus

Source: Human

Buffer Contents: 10 μ g of Recombinant PDGFR α protein in 50 mM Tris-HCl, pH 8.0; 100 mM NaCl, 5 mM DTT, 15 mM reduced glutathione, 20% glycerol. Protein is supplied at 0.446 μ g/ μ l.

Background: PDGFR α (Platelet Derived Growth Factor Receptor alpha) is 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. PDGFR α may promote or inhibit cell proliferation and migration, and plays an important role in the differentiation of bone marrow-derived mesenchymal stem cells. It is required for normal embryonic development of several tissue and organ types and plays a role in cell migration and chemotaxis in wound healing and platelet activation. Binding of its ligands - homodimers or heterodimers of PDGFA and PDGFB leads to the activation of several signaling cascades.

Protein Details: Recombinant human PDGFR α protein was produced using baculovirus infected Sf9 cells. The protein was made against amino acids Q551-L1089, accession number NM_006206 and N-terminally fused to GST-Factor Xa cleavage site. Purified by GSH-agarose affinity purification.

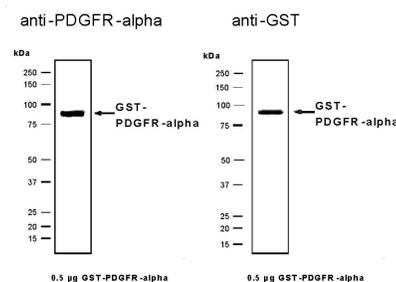
Application Notes: Recombinant PDGFR α is suitable for kinase assays and Western blot. The molecular weight of the protein is ~87.851 kDa. The activity of the protein is ~10 pmol/ μ g min.

Recommended kinase reaction conditions: 60 mM HEPES-NaOH, pH 7.5, 3 mM MgCl₂, 3 mM MnCl₂, 3 μ M Na-orthovanadate, 1.2 mM DTT, ATP (variable), 2.5 μ g/50 μ l PEG20.000, Substrate: PolyAEKY 2.5 μ g / 50 μ l, Recombinant PDGFR α : 200 ng/50 μ l.

Kinase activity may vary depending on the substrate and reaction conditions used.

Storage and Guarantee: This product is guaranteed for 6 months from date of receipt.

This product is for research use only and is not for use in diagnostic procedures.



Recombinant PDGFR α protein tested by SDS-PAGE gel.

0.5 μ g of PDGFR α protein was analyzed using SDS/PAGE followed by Western blot with either an anti-PDGFR α or anti-GST antibody.