

## Datasheet

### PDGFRA (T674I) (Human) Recombinant Protein

**Catalog Number:** P5757

**Regulation Status:** For research use only (RUO)

**Product Description:** Human PDGFRA (NP\_006197.1, 550 a.a. - 1089 a.a.) T674I mutant partial recombinant protein with GST tag expressed in Baculovirus infected Sf21 cells.

**Host:** Insect

**Theoretical MW (kDa):** 89

**Applications:** Func, SDS-PAGE  
(See our web site product page for detailed applications information)

**Protocols:** See our web site at  
<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**Form:** Liquid

**Preparation Method:** Baculovirus infected insect cell (Sf21) expression system

**Purification:** Glutathione sepharose chromatography

**Purity:** 64 % by SDS-PAGE/CBB staining

**Activity:** The activity was measured by off-chip mobility shift assay. The enzyme was incubated with fluorescence-labeled substrate and Mg (or Mn)/ATP. The phosphorylated and unphosphorylated substrates were separated and detected by LabChip™3000.  
Substrate : CSKtide. ATP: 100 μM.

**Storage Buffer:** In 50 mM Tris-HCl, 150 mM NaCl, pH 7.5 (0.05% Brij35, 1 mM DTT, 10% glycerol)

**Storage Instruction:** Store at -80°C.  
Aliquot to avoid repeated freezing and thawing.

**Entrez GeneID:** 5156

**Gene Symbol:** PDGFRA

**Gene Alias:** CD140A, MGC74795, PDGFR2, Rhe-PDGFR

**Gene Summary:** This gene encodes a cell surface tyrosine kinase receptor for members of the platelet-derived growth factor family. These growth factors are mitogens for cells of mesenchymal origin. The identity of the growth factor bound to a receptor monomer determines whether the functional receptor is a homodimer or a heterodimer, composed of both platelet-derived growth factor receptor alpha and beta polypeptides. Studies in knockout mice, where homozygosity is lethal, indicate that the alpha form of the platelet-derived growth factor receptor is particularly important for kidney development since mice heterozygous for the receptor exhibit defective kidney phenotypes. [provided by RefSeq]