

Recombinant Human PDGFRA

Cat. No. PDGFRA-30830TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human PDGF Receptor alpha was expressed by baculovirus in Sf9 insect cells using an N-terminal propriety tag.
Species	Human
Description	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.
Tissue specificity	Expressed in primary and metastatic colon tumors and in normal colon tissue. Tumors may express a different isoform to that found in normal tissue.
Biological activity	Specific activity: 12nmol/min/mg.
Form	Liquid
Storage buffer	Preservative: None Constituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, pH 7.5

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Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequence Similarities	Belongs to the protein kinase superfamily. Tyr protein kinase family. CSF-1/PDGF receptor subfamily.Contains 5 Ig-like C2-type (immunoglobulin-like) domains.Contains 1 protein kinase domain.

GENE INFORMATION

Gene Name	PDGFRA platelet-derived growth factor receptor, alpha polypeptide [Homo sapiens]
Official Symbol	PDGFRA
Synonyms	PDGFRA; platelet-derived growth factor receptor, alpha polypeptide; alpha-type platelet-derived growth factor receptor; CD140a; PDGFR2;
Gene ID	5156
mRNA Refseq	NM_006206
Protein Refseq	NP_006197
MIM	173490
Uniprot ID	P16234
Chromosome Location	4q12
Pathway	ATF-2 transcription factor network, organism-specific biosystem; Calcium signaling pathway, organism-specific biosystem; Calcium signaling pathway, conserved

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biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem;
Cytokine-cytokine receptor interaction, conserved biosystem;

Function

ATP binding; growth factor binding; nucleotide binding; phosphatidylinositol 3-kinase
binding; platelet-derived growth factor alpha-receptor activity;

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