Recombinant Human Platelet-Derived Growth Factor Receptor, Alpha Polypeptide, GST-tagged

Cat. No. PDGFRA-1287H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanPDGFRA catalytic domain (amino acids 550-1089), GST-tagged was expressed ininsect cells. Its molecular weight is 89800 Dalton.
Species	Human
Source	Insect Cells
ProteinLength	550-1089 a.a.
Description	PDGFRA is a cellsurface receptor tyrosine kinase which binds members of the platelet-derivedgrowth factor family. No special measures were taken to activate this kinase.PDGFRA encodes a cell surface tyrosine kinase receptor for members of theplatelet-derived growth factor family. These growth factors are mitogens forcells of mesenchymal origin. The identity of the growth factor bound to areceptor monomer determines whether the functional receptor is a homodimer ora heterodimer, composed of both platelet-derived growth factor receptor alphaand beta polypeptides.
Form	Liquid in 50 mMTris, pH 7.5 + 150 mM NaCl + 0.5 mM EDTA + 0.02% Triton X-100 + 2 mM DTT + 50%glycerol.
Molecular Weight	89.8 kDa
Storage	Stable for 6 monthsin working aliquots at -80°C. Avoid repeated freeze-thaw cycles.

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OfficialSymbol	PDGFRA

GENE INFORMATION

Gene Name	PDGFRA platelet-derived growth factor receptor,alpha polypeptide [Homo sapiens]
Synonyms	PDGFRA;platelet-derived growth factor receptor, alpha polypeptide; CD140A; CD140a;PDGFR2; MGC74795; RHEPDGFRA; Alpha-type platelet-derived growth factorreceptor; EC 2.7.10.1; PDGF-R-alpha; CD140 antigen-like family member A;CD140a antigen
Gene ID	5156
mRNA Refseq	NM_006206
Protein Refseq	NP_006197
MIM	173490
UniProt ID	P16234
Chromosome Location	4q12
Pathway	ATF-2 transcriptionfactor network; Calcium signaling pathway; Cytokine-cytokine receptorinteraction; Downstream signal transduction; Endocytosis; Focal adhesion; Gapjunction; Glioma; HTLV-I infection; MAPK signaling pathway; Melanoma;Pathways in cancer; PDGFR-alpha signaling pathway; Regulation of actin cytoskeleton;Signaling by PDGF
Function	ATP binding; growthfactor binding; nucleotide binding; phosphatidylinositol 3-kinase

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	binding;platelet-derived growth factor alpha-receptor activity; platelet-derivedgrowth factor binding; platelet-derived growth factor receptor binding;protein homodimerization activity; protein tyrosine kinase activity; receptoractivity; transmembrane receptor protein tyrosine kinase activity; vascularendothelial growth factor-activated receptor activity

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