

Recombinant Human PDGFRA

Cat. No. PDGFRA-1676H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PDGFRA encoding the extracellular domain (amino acid residues 1-524) of human PDGF A Type receptor (PDGF R α) was expressed in NSO cells.
Species	Human
Source	Mammalian Cells
ProteinLength	1-524 a.a.
Description	Platelet-derived growth factor receptor, alpha polypeptide, also known as PDGFRA, 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. A soluble form of the platelet-derived growth factor (PDGF) alpha receptor, designated sPDGF-R alpha is capable of binding PDGF ligand and can compete with cell-associated PDGF receptors for ligand binding.
Molecular Weight	The predicted molecular weight of Recombinant Human PDGF sR α g is Mr 55 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 95-107 kDa.
State Of Matter	Lyophilized.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	>97% by SDS Page and analyzed by silver stain.
Formulation	0.2 µm filtered and lyophilized from PBS.
Endotoxin	<1.0 EU/g as determined by the LAL method.
Biological Activity	The biological activity of Human PDGF sRα was determined by its ability to inhibit the biological activity of hPDGF-AB or rhPDGF-AA in quiescent NR6R-3T3 fibroblasts. The ED50 for this effect is typically 5.0 - 10.0 µg/ml in the presence of 10 ng/ml rhPDGF-AA.
Storage And Stability	This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions.

GENE INFORMATION

Gene Name	PDGFRA platelet-derived growth factor receptor, alpha polypeptide [Homo sapiens]
Synonyms	PDGFRA; platelet-derived growth factor receptor, alpha polypeptide; CD140A; PDGFR2; MGC74795; RHEPDGFRA; Alpha-type platelet-derived growth factor receptor; EC 2.7.10.1; PDGF-R-alpha; CD140 antigen-like family member A; CD140a antigen
Gene ID	5156
mRNA Refseq	NM_006206

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Protein Refseq	NP_006197
MIM	173490
UniProt ID	P16234
Chromosome Location	4q12
Pathway	Calcium signaling pathway; Colorectal cancer; Cytokine-cytokine receptor interaction; Endocytosis; Focal adhesion; Gap junction; Glioma; Pathways in cancer; Regulation of actin cytoskeleton; Signaling by PDGF
Function	ATP binding; nucleotide binding; platelet-derived growth factor alpha-receptor activity; platelet-derived growth factor binding; platelet-derived growth factor receptor binding; protein heterodimerization activity; receptor activity; transferase activity; vascular endothelial growth factor receptor activity

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA