

Active Recombinant Human PDGFRA, Fc-tagged, Biotinylated

Cat. No. PDGFRA-662H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The recombinant human PDGFRA-Fc fusion is expressed as a 733 amino acid protein consisting of Gln24 - Ala528 region of PDGFRA and a C-terminal Fc from human IgG1, which exists as a dimer under non-reducing conditions.
Species	Human
Source	Human Cells
ProteinLength	24-528 a.a.
Form	Supplied at 0.5 mg/ml in sterile PBS pH7.4 (carrier & preservative free). The purified recombinant protein was labeled with Biotin (3-5 Biotin per molecule).
Bio-activity	Binds human PDGF family members (PDGFA, PDGFB and PDGFC) and blocks PDGF-mediated signaling activity in fibroblast cells.
Molecular Mass	Calculated molecular mass (kDa): 82.1; Estimated by SDS-PAGE under reducing condition (kDa): 90-100
AA Sequence	QLSLPSILPNENEKVVLNSSFSLRCFGESEVSWQYPMSEEESSDVEIRNEENNSGL FVTVLEVSSASAAHTGL YTCYYNHTQTEENELEGRHIYIYVPDPDVAFVPLGMTDYL VIVEDDDSAIIPCRITDPETPVTLNSEGVPAS YDSRQGFNGFTFTVGPYICEATVK GKKFQTIPFNVYALKATSELDLEMEALKTVYKSGETIVTCAVFNNNEVVDL QWTPPG EVKGKGITMLEEIKVPSIKLVYTLTVPEATVKDSGDYECARQATREVKEMKKVTISV HEKGFIEIK PTFSQLEAVNLHEVKHFVVEVRAYPPPRISWLKNNLTLIENLTEITDVE

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KIQEIRYRSKLLIRAKEEDSGHY TIVAQNEDAVKSYTFELLTQVPSSILDLVDDHHGS
TGGQTVRCTAEGTPLPDIEWMICKDIKKNNETSWTILA NNVSNITEIHPRDRSTVE
GRVTFAKVEETIAVRCLAKNLLGAENRELKLVAPTLRSELTVASTGTHTCPPCPA PE
LLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKT
KPREEQYNSTYRVVS VLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPRE
PQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIA VEWESNGQPENNYKTTTPVLDS
GSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

Endotoxin

<0.1 eu="" per="" 1="" μg="" of="" purified="" recombinant="" protein=""
determined="" by="" the="" lal="">

Purity

>95% judged by SDS-PAGE under reducing condition

Storage

The product is shipped at 4°C. Upon receipt, centrifuge the product briefly before opening the vial. It is recommended to store small aliquots at the temperature below -20°C for long-term storage and the product is stable for 3 months. The undiluted protein can be stored at 4°C for no more than 2 weeks. Avoid repeated freeze-thaw cycles.

Conjugation

Biotin

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; platelet-derived growth factor receptor alpha; CD140a; PDGFR2; PDGFR-alpha; PDGF-R-alpha; CD140a antigen; PDGFRA/BCR fusion; CD140 antigen-like family member A; platelet-derived growth factor receptor 2; alpha-type platelet-derived growth factor

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	receptor; rearranged-in-hypereosinophilia-platelet derived growth factor receptor alpha fusion protein; CD140A; PDGFR-2; RHEPDGFRA; MGC74795;
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 biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Downstream signal transduction, organism-specific biosystem; Endocytosis, organism-specific biosystem;
Function	ATP binding; nucleotide binding; phosphatidylinositol 3-kinase binding; platelet-derived growth factor alpha-receptor activity; platelet-derived growth factor alpha-receptor activity; platelet-derived growth factor binding; platelet-derived growth factor binding; platelet-derived growth factor receptor binding; protein homodimerization activity; protein tyrosine kinase activity; receptor activity; transmembrane receptor protein tyrosine kinase activity; vascular endothelial growth factor binding; vascular endothelial growth factor-activated receptor activity;