

Recombinant Human PDGFRB Protein, Fc-tagged

Cat. No. PDGFRB-416H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PDGFRB protein with Fc tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	1106
Description	The protein encoded by this gene is 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 (PDGFB or PDGFD) or a heterodimer (PDGFA and PDGFB). This gene is essential for normal development of the cardiovascular system and aids in rearrangement of the actin cytoskeleton. This gene is flanked on chromosome 5 by the genes for granulocyte-macrophage colony-stimulating factor and macrophage-colony stimulating factor receptor; all three genes may be implicated in the 5-q syndrome. A translocation between chromosomes 5 and 12, that fuses this gene to that of the ETV6 gene, results in chronic myeloproliferative disorder with eosinophilia.
Form	Lyophilized
Molecular Mass	82.8 kDa
AA Sequence	MRLPGAMPALALKGELLLLSSLLLLLEPQISQGLVVTTPGPELVLNVSSTFVLTCSGSA

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PVWVERMSQEPPQEMAKAQDGTFSVLTLTNLTGLDTGEYFCTHNDSRGLETDER
 KRLYIFVPDPTVGFLPNDAEELFIFLTEITEITIPCRVTDPLVVTLHEKKGDVALPVPY
 DHQRGFSGIFEDRSYICKTTIGDREVDSDAYYVYRLQVSSINVSNAVQTVVRQGEN
 ITLMCIVIGNEVVNFEWYTPRKESGRLVEPVTDFLLDMPYHIRSILHIPS AELEDSGT
 TCNVTESVNDHQDEKAINITVVEGSGYVRLLGEVGTQFAELHRSRTLQVVFAYPPP
 TVLWFKDNRTLGDSSAGEIALSTRNVSETRYVSELT LVRVKVAEAGHYTMRAFHE
 AEVQLSFQLQINVPVRVLELSESHPDSEGT VRCRGRGMPQPNIWSACRDLKRC
 RELPPTLLGNSSEEEESQLETNVTYWEEEQEFVSTLRLQHVDRLSVRCTLRNAV
 GQDTQEVIVPHSLPFKVVVISAILALVVLTIISLIILIMLWQKKPRYEIRWKVIESVSSD
 GHEYIYVDPMLPYDSTWELPRDQLVLGRTLGSAGFGQVVEATAHGLSHSQATMK
 VAVKMLKSTARSSSEKQALMSELKIMSHLGPLN VVNLLGACTKGGPIYIITEYCRYGD
 LVDYLHRNKHTFLQHHS DKRRPPSAELYSNALPVGLPLPSHVS LTGESDGGYMDMS
 KDESVDYVPMLDMKGDVKYADIESSNYMAPYDNYVPSAPERTCRATLINESPVLSY
 MDLVGFSYQVANGMEFLASKNCVHRDLAARNVLICEGKLVKICDFGLARDIMRDSNY
 ISKGSTFLPLKWMAPESIFNSLYTTLS DVWSFGILLWEIFTLGGTPYPELPMNEQFYN
 AIKRGYRMAQPAHASDEIYEIMQKCWEEKFEIRPPFSQLVLLERLLGEGYKKKYQQ
 VDEEFLRSDHPAILRSQARLPGFHGLRSPLDTSSVLYTAVQPNEGDN DYIIPDPKP
 EVADEGPLEGSPSLASSTLNEVNTSSTISCDSPLEPQDEPEPEPQLELQVEPEPELE
 QLPDSGCPAPRAEAEDSFL

Purity > 98%

Applications WB; ELISA; FACS; FC

Stability This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term).
 After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18
 centigrade for future use.

Storage At -20 centigrade.

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Concentration	1 mg/mL
Storage Buffer	PBS (pH 7.4-7.5). Sterile-filtered colorless solution.
Reconstitution	Reconstitute in sterile distilled H ₂ O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

GENE INFORMATION

Gene Name	PDGFRB platelet-derived growth factor receptor, beta polypeptide [Homo sapiens (human)]
Official Symbol	PDGFRB
Synonyms	PDGFRB; platelet-derived growth factor receptor, beta polypeptide; PDGFR; platelet-derived growth factor receptor beta; CD140b; JTK12; PDGFR1; PDGFR-beta; PDGFR-beta; CD140 antigen-like family member B; platelet-derived growth factor receptor 1; beta-type platelet-derived growth factor receptor; CD140B; PDGFR-1;
Gene ID	5159
mRNA Refseq	NM_002609
Protein Refseq	NP_002600
MIM	173410
UniProt ID	P09619

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