

PDGF R beta Protein, Rhesus Macaque (HEK293, His)

Cat. No.:	HY-P77129
Synonyms:	Platelet-derived growth factor receptor beta; PDGF-R-beta; PDGFR-1; CD140b; PDGFRB
Species:	Rhesus Macaque
Source:	HEK293
Accession:	F7BTH1 (L33-F530)
Gene ID:	711353
Molecular Weight:	Approximately 80-96 kDa.

PROPERTIES

AA Sequence	<pre> LVITPPGPEL I L N V S S T F V L T C S G S A P V V W E R M S Q E L P Q E M A K A Q D N T F S S V L T L T N L T G L D T G E Y F C T Y N D S R G L E P D E R K R L Y I F V P D P T M G F L P N D A E E L F I F L T E I T E I T I P C R V T D P Q L V V T L H E K K G D I A L P V P Y D H Q R G F S G I F E D R S Y I C K T T I G D R E V D S D A Y Y V Y R L Q V S S I N V S V N A V Q T V V R Q G E N I T L M C I V I G N E V V N F E W M Y P R K E S G R L V E P V T D F L L D M P Y H I R S I L H I P S A E L E D S G T Y T C N V T E S V N D H Q D E K A I N I T V V E S G Y V R L L G E V G A L Q F A E L H R S R T L Q V V F E A Y P P P T V L W F K D N R T L G D S S A G E I A L S T R N V S E T R Y V S E L T L V R V K V A E A G H Y T M R A F H E D A E V Q L S F Q L Q I N V P V R V L E L S E S H P D S G E Q T V R C R G R G M P Q P N I I W S A C R D L K R C P R E L P P M L L G N S S E E E S Q L E T N V T Y W E E E Q E F E V V S T L R L Q H V D R P L S V R C T L R N A V G Q D M Q E V I V V P H S L P F </pre>
Biological Activity	Measured by its ability to inhibit the biological activity of PDGF-BB using NIH-3T3 mouse fibroblast cells. The ED ₅₀ for this effect is 2.236 µg/mL in the presence of 50 ng/mL Recombinant Human PDGF-BB, corresponding to a specific activity is 447.22 Unit/mg.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

PDGF R beta, a tyrosine-protein kinase, serves as a cell-surface receptor for homodimeric PDGFB and PDGFD, as well as heterodimers formed by PDGFA and PDGFB. This receptor plays a crucial role in the intricate regulation of embryonic development, overseeing processes such as cell proliferation, survival, differentiation, chemotaxis, and migration. Particularly vital in blood vessel development, PDGF R beta facilitates the proliferation, migration, and recruitment of pericytes and smooth muscle cells to endothelial cells, contributing significantly to the formation and maintenance of blood vessels.

Caution: Product has not been fully validated for medical applications. For research use only.

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