PDGF R beta Protein, Human (HEK293, His)

Cat. No.:	HY-P72494
Synonyms:	Platelet-derived growth factor receptor beta; PDGF-R-beta; PDGFR-1; CD140b; PDGFRB
Species:	Human
Source:	HEK293
Accession:	NP_002600.1 (L33-K531)
Gene ID:	5159
Molecular Weight:	85-130 kDa

PROPERTIES

AA Sequence	L V V T P P G P E L V 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 P P Q E M A K A Q D G T F S S V L T L T N L T G L D T G E Y F C T H N D S R G L E T D E R K R L Y I F V P D P T V 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 V 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 T 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 T 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 T 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 T Q E V I V V P H S L P F
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized PDGF-BB at 1 μg/mL (100 μL/well) can bind Biotinylated PDGF R beta. The ED_{50} for this effect is 42.19 ng/mL.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. 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	The PDGF R beta Protein encodes a cell surface tyrosine kinase receptor that interacts with members of the platelet-derived growth factor family, known mitogens for cells of mesenchymal origin. The identity of the growth factor binding to a receptor monomer determines whether the functional receptor forms a homodimer (with PDGFB or PDGFD) or a heterodimer (with PDGFA and PDGFB). Essential for normal cardiovascular system development and the 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, with all three potentially implicated in the 5-q syndrome. A translocation between chromosomes 5 and 12, resulting in the fusion of this gene with that of the ETV6 gene, leads to chronic myeloproliferative disorder with eosinophilia. Broadly expressed, the PDGF R beta gene exhibits elevated levels in the gall bladder (RPKM 79.5), placenta (RPKM 61.0), and 21 other tissues, indicating its involvement in diverse physiological contexts across multiple organs.

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