

Recombinant Human PDGFRB/CD140b Protein (His Tag)



Catalog Number:PKSH032907

Note: Centrifuge before opening to ensure complete recovery of vial contents.

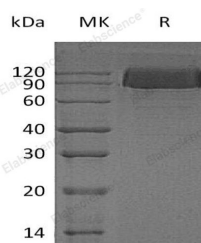
Description

Synonyms	Platelet-Derived Growth Factor Receptor Beta;PDGF-R-Beta;PDGFR-Beta;Beta Platelet-Derived Growth Factor Receptor;Beta-Type Platelet-Derived Growth Factor Receptor;CD140 Antigen-Like Family Member B;Platelet-Derived Growth Factor Receptor 1;PDGFR-1;CD140b;PDGFRB;PDGFR;PDGFR1;CD140B;IBGC 4;IMF1;JTK12;KOGS;PENTT
Species	Human
Expression Host	HEK293 Cells
Sequence	Leu33-Phe530
Accession	AAH32224.1
Calculated Molecular Weight	57.2 kDa
Observed molecular weight	85-130 kDa
Tag	C-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C . Reconstituted protein solution can be stored at $4-8^{\circ}\text{C}$ for 2-7 days. Aliquots of reconstituted samples are stable at $< -20^{\circ}\text{C}$ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a $0.2 \mu\text{m}$ filtered solution of 20mM PB, 150mM NaCl, pH 7.2. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed man
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Platelet-Derived Growth Factor Receptor β (PDGFR- β) is a member of the protein kinase superfamily and CSF-1/PDGF receptor subfamily. The PDGF family consists of PDGF-A, -B, -C and -D, which form either homo- or heterodimers (PDGF-AA, -AB, -BB, -CC, -DD). The four PDGFs are inactive in their monomeric forms. The PDGFs bind to the protein tyrosine kinase receptors PDGF receptor- α and - β . These two receptor isoforms dimerize upon binding the PDGF

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dimer, leading to three possible receptor combinations, namely $-\alpha\alpha$, $-\beta\beta$ and $-\alpha\beta$. The extracellular region of the PDGF receptor- β consists of five immunoglobulin-like domains while the intracellular part is a tyrosine kinase domain. In addition to being a potent mitogen for cells of mesenchymal origin, PDGF has also been shown to be a potent chemoattractant for mesenchymal cells, mononuclear cells, and neutrophils and has been reported to be important in the modification of cellular matrix constituents.

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