

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°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping

This product is provided as lyophilized powder which is shipped with ice packs.

Formulation

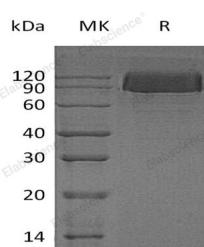
Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.2. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

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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