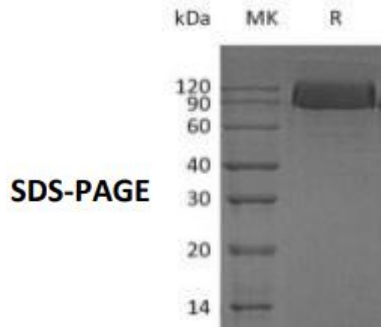


Recombinant Human PDGFRB

Catalog#:P00509 Derived from Human Cells

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| DESCRIPTION | <p>Recombinant Human Platelet-Derived Growth Factor Receptor Beta is produced by our Mammalian expression system and the target gene encoding Leu33-Phe530 is expressed with a 6His tag at the C-terminus.</p> <p>Accession#: AAH32224.1</p> <p>Known as: 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</p> |
| FORMULATION | Lyophilized from a 0.2 μ m filtered solution of 20mM PB, 150mM NaCl, pH 7.2. |
| SHIPPING | <p>The product is shipped at ambient temperature.</p> <p>Upon receipt, store it immediately at the temperature listed below.</p> |
| STORAGE | <p>Lyophilized protein should be stored at <-20°C, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at 4-7°C for 2-7 days.</p> <p>Aliquots of reconstituted samples are stable at < -20°C for 3 months.</p> |
| RECONSTITUTION | <p><i>Always centrifuge tubes before opening. Do not mix by vortex or pipetting.</i></p> <p><i>It is not recommended to reconstitute to a concentration less than 100μg/ml.</i></p> <p>Dissolve the lyophilized protein in distilled water.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p> |
| QUALITY CONTROL | <p>Mol Mass:57.17kDa AP Mol Mass:85-130kDa, reducing conditions.</p> <p>Purity: Greater than 95% as determined by reducing SDS-PAGE.</p> <p>Endotoxin: Less than 0.1 ng/μg (1 EU/μg) as determined by LAL test.</p> |
| BACKGROUND | <p>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 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.</p> |
|  <p>SDS-PAGE</p> | |