

32-7346: Recombinant Human Platelet-Derived Growth Factor Receptor beta/PDGFR- beta (C-6His)

Gene : PDGFRB
Gene ID : 5159
Uniprot ID : P09619

Description

Source: Human Cells.

MW :57.17kD.

Recombinant Human PDGF 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. Platelet-Derived Growth Factor Receptor beta (PDGFR- beta) 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-a and - beta. These two receptor isoforms dimerize upon binding the PDGF dimer, leading to three possible receptor combinations, namely -aa, - beta beta and -a beta. The extracellular region of the PDGF receptor- beta 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.

Product Info

Amount : 10 µg / 50 µg

Content : Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.2.

Storage condition : Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.

Amino Acid : LVVTPPGPELVLNVSSTFVLTCSGSAPVWVERMSQEPPQEMAKAQDGTFFSSVLTLTNLTGLDTGEYFCTHND
RGLETDERKRLYIFVPDPTVGFLPNDAEELFIFLTEITEITIPCRVTDQPLVVTLHEKKGDDVALPVPYDHQRGFFGIF
EDRSYICKTTIGDREVSDAYVYRLLQVSSINVSNAVQTVVRQGENITLMCIVIGNEVNFVWYPRKESGRLV
EPVTDFLDMPYHIRSILHIPSALAELEDSGTYTCNVTESVNDHQDEKAINITVVEGYYVRLLEGEVTLQFAELHRSR
TLQVVFAYPPPTVLWFKDNRTLGDSSAGEIALSTRNVSETRYVSELTLVRVKVAEAGHYTMRAFHEDAQVLS
FQLQINVPVRVLELSEHPDSGEQTVRCRGRGMPQPNIIWSACRDLKRCPRELPTLLGNSSEEEESQLETNVTY
WEEEQEFVSTLRLQHVDRPLSVRCTLRNAVGQDTQEVIVVPHSLPFVDHHHHHH

Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH₂O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Endotoxin : Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.