

Active Recombinant Human PDGFB Protein

Cat. No. PDGFB-224H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human PDGFB Protein without tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	<p>Platelet-derived growth factor (PDGF) is an important regulator of cell growth, proliferation, and angiogenesis. PDGF synthesis is induced by IL-1, IL-6, TNF-α, TGF-β, and EGF signaling. PDGF functions as a mitogenic growth hormone on cells of mesenchymal lineage, such as smooth muscle and glial cells. PDGF is also stored in the alpha-granules of platelets and is released upon adherence to traumatized tissues. PDGF is a dimeric glycoprotein formed by two A chains (AA), two B chains (BB), or as a heterodimer with an A and a B chain (AB). The PDGF dimer binds the cell surface receptor tyrosine kinases PDGFR-α and PDGFR-β.</p>
Bio-activity	3T3 cell proliferation, ≤ 20 ng/mL; $\geq 5.0 \times 10^4$ units/mg
Molecular Mass	Dimer, 12.4/24.9 kDa (110/220 aa)
AA Sequence	MSLGSLTIAEPAMIAECKTRTEVF EISRRLIDRTNANFLVWPPCVEVQRCSGCCNNR NVQCRPTQVQLRPVQVRKIEIVRKKPIFKKATVTLEDHLACKCETVAAARPVT
Endotoxin	≤ 1 EUs/ μ g, Kinetic LAL
Purity	$\geq 95\%$, Reducing and Non-Reducing SDS PAGE

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Stability	<p>12 months from date of receipt when stored at -20 to -80 centigrade as supplied.</p> <p>1 month when stored at 4 centigrade after reconstituting as directed.</p> <p>3 months when stored at -20 to -80 centigrade after reconstituting as directed.</p>
Storage	Storage Prior to Reconstitution: -20 centigrade
Storage Buffer	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, pH 7.5
Reconstitution	Sterile water at 0.1 mg/mL
Shipping	Room temperature
Instructions	Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80 centigrade and avoid repeat freeze thaws.

GENE INFORMATION

Gene Name	PDGFB platelet-derived growth factor beta polypeptide [Homo sapiens (human)]
Official Symbol	PDGFB
Synonyms	PDGFB; platelet-derived growth factor beta polypeptide; platelet derived growth factor beta polypeptide (simian sarcoma viral (v sis) oncogene homolog) , SIS; platelet-derived growth factor subunit B; becaptermin; oncogene SIS; SSV; PDGF-2; PDGF, B chain; PDGF subunit B; proto-oncogene c-Sis; platelet-derived growth factor 2; platelet-derived growth factor B chain; platelet-derived growth factor, B chain; Platelet-derived growth factor, beta polypeptide (oncogene SIS); platelet-derived growth factor beta polypeptide (simian sarcoma viral (v-sis) oncogene homolog); SIS;

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PDGF2; c-sis; FLJ12858;

Gene ID 5155

mRNA Refseq NM_002608

Protein Refseq NP_002599

MIM 190040

UniProt ID P01127

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