

Active Recombinant Human PDGF-AB Protein

Cat. No. PDGFA-222H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PDGF-AB Protein without tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	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 .
Bio-activity	3T3 cell proliferation, ≤ 20 ng/mL; $\geq 5.0 \times 10^4$ units/mg
Molecular Mass	Dimer, Alpha: 14.4 kDa, Beta: 12.4 kDa, Total 26.8 kDa (Alpha: 126, Beta: 110, Total: 236 aa)
AA Sequence	Alpha chain: MSIEEAVPAVCKTRTVIYEIPRSQVDPTSANFLIWPPCVEVKRCTGCCN TSSVKCQPSRVHHRSVKVAKVEYVRKKPKLKEVQVRLEEHLACACATTSNPDYRE EDTGRPRESGKKRKRRLKPT Beta chain: MSLGSLTIAEPAMIAECKTRTEVFESRRLIDRTNANFLVWPPCVEVQRC

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	SGCCNNRNVQCRPTQVQLRPVQVRKIEIVRKKPIFKKATVTLEDHLACKCETVAAAR PVT
Endotoxin	≤1 EUs/μg, Kinetic LAL
Purity	≥95%, Reducing and Non-Reducing SDS PAGE
Stability	12 months from date of receipt when stored at -20 to -80 centigrade as supplied. 1 month when stored at 4 centigrade after reconstituting as directed. 3 months when stored at -20 to -80 centigrade after reconstituting as directed.
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	PDGFA platelet-derived growth factor alpha polypeptide [Homo sapiens (human)]
Official Symbol	PDGFA

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Synonyms	PDGFA; platelet-derived growth factor alpha polypeptide; platelet-derived growth factor subunit A; PDGF A chain; PDGF A; PDGF1; platelet derived growth factor alpha chain; PDGF-1; PDGF A-chain; PDGF subunit A; platelet-derived growth factor A chain; platelet-derived growth factor alpha chain; platelet-derived growth factor alpha isoform 2 preproprotein; PDGF-A;
Gene ID	5154
mRNA Refseq	NM_002607
Protein Refseq	NP_002598
MIM	173430
UniProt ID	P04085

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