

PDGF-BB active protein

Human PDGF-BB

CATALOG # AAA79160	HOST E Coli	REACTIVITY Human
------------------------------	-----------------------	----------------------------

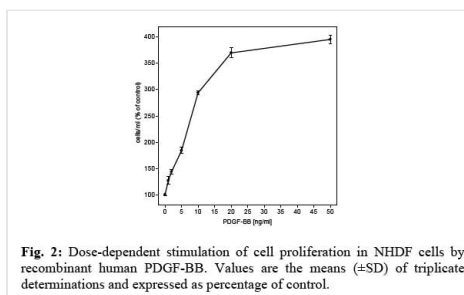
PRODUCT SYNONYMS

PDGF-BB; Human PDGF-BB; Recombinant Human Platelet-Derived Growth Factor-BB; Platelet-derived growth factor B chain; PDGF2; Proto-oncogene c-Sis; PDGF-BB active protein

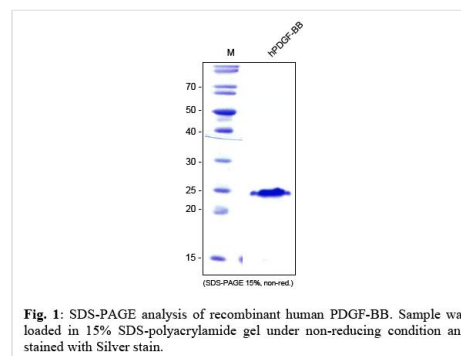
PRODUCT SPECIFICATIONS

Host	E Coli
Reactivity	Human
Purity/Purification	> 95% by SDS-PAGE & silver stain
Form/Format	Lyophilized
Sequence	SLGSLTIAEP AMIAECKTRT EVFEISRRLI DRTNANFLW PPCVEVQRCS GCCNNRNVQC RPTQVQLRPV QVRKIEIVRK KPIFKKATVT LEDHLACKCE TVAAARPVT< br> N-T erminalsequence: UNDE RWORK!
Sequence Length	109
Endotoxin Level	< 0.1ng per ug of PDGF-BB
Buffer	50 mM acetic acid
Reconstitution	The lyophilized PDGF-BB should be reconstituted in 50mM acetic acid to a concentration not lower than 100ug/ml. For long term storage of reconstituted protein addition of carrier protein (e.g. BSA or HAS; 0.1%) is recommended.
Stabilizer	None
Preparation and Storage	The lyophilized PDGF-BB is stable for a few weeks at room temperature, but best stored at -20 degree C. Reconstituted PDGF-BB is best stored at -20 degree C to -70 degree C.

IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for PDGF-BB active protein	PDGFs are disulfide-linked dimers consisting of two 12.0-13.5 kDa polypeptide chains, designated PDGF-A and PDGF-B chains. The three naturally occurring PDGFs; PDGF-AA, PDGF-BB and PDGF-AB, are potent mitogens for a variety of cell types including smooth muscle cells, connective tissue cells, bone and cartilage cells, and some blood cells. The PDGFs are stored in platelet alpha-granules and are released upon platelet activation. The PDGFs are involved in a number of biological processes, including hyperplasia, chemotaxis, embryonic neuron development, and respiratory tubule epithelial cell development. Two distinct signaling receptors used by PDGFs have been identified and named PDGFR-alpha and PDGFR-beta. PDGFR-alpha is high-affinity receptor for each of the three PDGF forms. On the other hand, PDGFR-beta interacts with only PDGF-BB and PDGF-AB. Recombinant human PDGF-BB is a 24.3 kDa disulfide-linked homodimer of two B chains (218 total amino acids).
Product Categories/Family for PDGF-BB active protein	Cytokines & Growth Factors
References	1. Fredriksson L et al, Cytokine Growth Factor Rev 15:197-204, 2004 2. Heldin CH et al, Br J Cancer 57:591-3, 1988 3. Deuel TF et al, Biofactors 1:213-7, 1988 4. Meyer-Ingold and Eichner W, Cell Biol Int 19:389-98, 1995 5. Betsholtz C and Raines EW, Kidney Int 51:1361-9, 1997 6. Kaetzel DM, Cytokine Growth Factor Rev 14:427-46, 2003 7. Simm A et al, Basic Res Cardiol Suppl 3:40-3, 1998

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505681
NCBI GeneID	5155
NCBI Accession #	NP_002599.1
NCBI GenBank Nucleotide #	NM_002608.2
UniProt Accession #	P01127; P78431; Q15354; Q6FHE7; Q9UF23; G3XAG8
Molecular Weight	24,3 kDa
NCBI Official Full Name	platelet-derived growth factor subunit B isoform 1 preproprotein
NCBI Official Synonym Full Names	platelet-derived growth factor beta polypeptide
NCBI Official Symbol	PDGFB
NCBI Official Synonym Symbols	SIS; SSV; IBGC5; PDGF2; c-sis; PDGF-2
NCBI Protein Information	platelet-derived growth factor subunit B; becaplermin; 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, beta polypeptide (oncogene SIS); platelet-derived growth factor beta polypeptide (simian sarcoma viral (v-sis) oncogene homolog)
UniProt Protein Name	Platelet-derived growth factor subunit B
UniProt Gene Name	PDGFB
UniProt Synonym Gene Names	PDGF2; SIS; PDGF subunit B
UniProt Entry Name	PDGFB_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.