

Recombinant Human PDGFB, His-tagged

Cat. No. PDGFB-58H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human Platelet-derived Growth Factor B mature chain produced in <i>E. Coli</i> is a non-glycosylated, polypeptide chain containing 109 amino acids fragment (82-190) and having with an amino-terminal His-tag. PDGF-B is purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
ProteinLength	82-190 a.a.
Description	The term 'PDGF' refers to a family of disulphide bond-linked dimeric isoforms that act as autocrine and paracrine growth factors and are produced by a variety of cell types other than platelets. They act as potent mitogens for almost all mesenchymally-derived cells. Aberrant expression is involved in certain cancers, fibroproliferative disorders and atherosclerosis. The protein also contributes to wound healing and neural regeneration. There are four members of the PDGF family-PDGF A, PDGF B, PDGF C and PDGF D. Two distinct types of PDGF-A exist-a short form that is soluble and a long form that is retained by the extracellular matrix.
Physical Appearance	Sterile Filtered clear solution.
Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

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Formulation	Platelet-Derived Growth Factor-B is supplied in 1x PBS and 50% glycerol.
Storage	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.
GENE INFORMATION	
Gene Name	PDGFB platelet-derived growth factor beta polypeptide (simian sarcoma viral (v-sis) oncogene homolog) [Homo sapiens]
Synonyms	PDGFB; platelet-derived growth factor beta polypeptide (simian sarcoma viral (v-sis) oncogene homolog); SIS; SSV; PDGF2; c-sis; FLJ12858; PDGFB; PDGF subunit B; Platelet-derived growth factor B chain; Platelet-derived growth factor beta; PDGF-2; Platelet-derived growth factor, beta polypeptide (oncogeneSIS); platelet-derived growth factor 2
Gene ID	5155
mRNA Refseq	NM_002608
Protein Refseq	NP_002599
UniProt ID	P01127
Chromosome Location	22q12.3-q13.1; 22q13.1
MIM	190040
Pathway	Cytokine-cytokine receptor interaction; Focal adhesion; Gap junction; Glioma; MAPK signaling pathway; Prostate cancer; Regulation of actin cytoskeleton; Hemostasis;

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Signaling by PDGF

Function

cell surface binding; collagen binding; growth factor activity; platelet-derived growth factor binding; platelet-derived growth factor receptor binding; contributes_to platelet-derived growth factor receptor binding; protein heterodimerization activity

PDB rendering based on 1pdg.



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