

Recombinant human PDGFb

Catalog P001

Lot A0023

product specification sheet: PS-P001



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Product description

Human PDGFb, platelet derived growth factor, is a dimeric protein. It can form homodimers of PDGFb or heterodimers with PDGFa. It is involved in the regulation of embryonic development, cell proliferation, cell migration, survival and chemotaxis. Potent mitogen for cells of mesenchymal origin. Required for normal proliferation and recruitment of pericytes and vascular smooth muscle cells in the central nervous system, skin, lung, heart and placenta. Required for normal blood vessel development, and for normal development of kidney glomeruli. Plays an important role in wound healing. Mutations in PDGFb are associated with meningioma. Reciprocal translocations between chromosomes 22 and 7, at sites where this gene and that for COL1A1 are located, are associated with a particular type of skin tumor called dermatofibrosarcoma protuberans resulting from unregulated expression of growth factor.

Reference sequences:	NM_002608 NP_002599 Swiss-prot P01127
Alternative names:	platelet-derived growth factor beta polypeptide PDGF2 becaplermin epididymis secretory sperm binding protein proto-oncogene c-Sis
Gene ID:	5155

Residues 21-211 of human PDGFb were cloned, the protein was over-expressed in HEK293EBNA1 cells and was purified to homogeneity (figure 1). The calculated molecular weight of monomeric recombinant human PDGFb after propeptide removal is 15.7 kDa and 31.4 kDa for the dimeric form. The protein contains a C-terminal hexahistidine tag. Each vial contains 100 µg PDGFb at a concentration of 0.88 mg/ml.

Storage and stability

PDGFb should be stored at - 80 °C (stable for at least 1 year). The buffer contains PBS without preservative. After thawing it should be stored in appropriate small aliquots at - 20 °C or - 80 °C (stable for at least 2 months).

Sequence

marplctllllmatlagalagsegdppeelyemlsdhsirsdldlqrlhgdpggeed
gaeldlnmtrshsggeleslargrrslgsltiaepamiaecktrtevfesrrlldrtnan
flvwppcvevqrcsgccnnrnvqcrptqvqlrpvqvrkieivrkpkpifkktvlted
hlackcetvaaarpvtrspggsqeqraktpqtrvtiraaa*

signal peptide and propeptide are shown in blue

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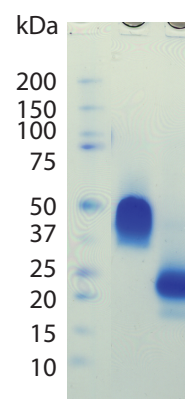


Figure 1. NuPage analysis of purified PDGFb