10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Human CellExp PDGF-BB, human recombinant protein

PDGFB, PDGF-B, FLJ12858, PDGF2, PDGF-2
Catalog # PBV10901r

Specification

Human CellExp PDGF-BB, human recombinant protein - Product info

Primary Accession	P01127
Calculated MW	**This protein has a calculated MW of 25 kDa. DTT-reduced protein migrates as a 15 kDa polypeptide and the non-reduced cystine-linked homodimer migrates as a 30 kDa protein. KDa**

Human CellExp PDGF-BB, human recombinant protein - Additional Info

Gene ID	**5155**
Gene Symbol	**PDGFB**

Other Names
PDGFB, PDGF-B, FLJ12858, PDGF2, PDGF-2

Gene Source	**Human**
Source	**HEK 293 cells**
Assay&Purity	**SDS-PAGE; ≥95%**
Assay2&Purity2	**N/A;**
Recombinant	**Yes**

Target/Specificity
PDGFB

Application Notes
Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4 to a concentration of 50 µg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -20°C.

Format
Lyophilized powder

Storage
-20°C; Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 150 mM NaCl pH 8.0. Generally 5-8% Mannitol or trehalose is added as a protectant before lyophilization.

Human CellExp PDGF-BB, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry

- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Human CellExp PDGF-BB, human recombinant protein - Images

Human CellExp PDGF-BB, human recombinant protein - Background

PDGFs are mitogenic during early developmental stages, driving the proliferation of undifferentiated mesenchyme and some progenitor populations. During later maturation stages, PDGF signalling has been implicated in tissue remodelling and cellular differentiation, and in inductive events involved in patterning and morphogenesis. In addition to driving mesenchymal proliferation, PDGFs have been shown to direct the migration, differentiation and function of a variety of specialized mesenchymal and migratory cell types, both during development and in the adult animal. Other growth factors in this family include vascular endothelial growth factors B and C (VEGF-B, VEGF-C)which are active in angiogenesis and endothelial cell growth, and placenta growth factor

(PlGF) which is also active in angiogenesis. PDGF plays a role in embryonic development, cell proliferation, cell migration, and angiogenesis. PDGF is a required element in cellular division for fibroblast, a type of connective tissue cell. PDGF is also known to maintain proliferation of oligodendrocyte progenitor cells. Platelet-derived growth factor subunit B is also known as PDGFB, FLJ12858, PDGF2, SIS, SSV, c-sis, is a member of the platelet-derived growth factor family. PDGFB can exist either as a homodimer (PDGF-BB) or as a heterodimer with the platelet-derived growth factor alpha polypeptide (PDGF-AB), where the dimers are connected by disulfide bonds. Mutations in this gene are associated with meningioma.

Human CellExp PDGF-BB, human recombinant protein - References

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