

Recombinant Mouse PDGF-BB Protein

Catalog No.: RP01745 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	18591	P31240

Tags

C-6His

Synonyms

Sis; c-sis; PDGF-2; PDGF-B \square PDGFB

Product Information

Source	Purification
HEK293 cells	> 97% by SDS-PAGE.

Calculated MW	Observed MW
13.06 kDa	15-25 kDa

Endotoxin

< 1EU/ μ g

Formulation

Lyophilized from a 0.22 μ m filtered solution of 20mMNaAc-Hac pH4.5

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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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 specialised 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 (PIGF) 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.

Basic Information

Description

Recombinant Mouse PDGF-BB Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ser82-Thr190) of mouse PDGF subunit B/PDGF-2/PDGFB (Accession #NP_035187.2) fused with a 6xHis tag at the C-terminus.

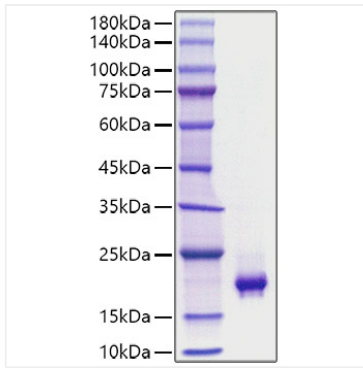
Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human PDGFB (Catalog: RP01745) at 2 μ g/mL (100 μ L/well) can bind Human PDGFRB (Catalog: RP00126) with a linear range of 12-153 ng/mL.

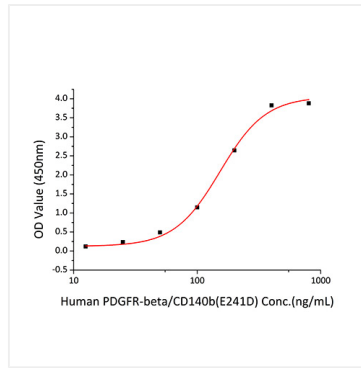
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

Validation Data



Active Recombinant Mouse PDGF-BB Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 15-25 kDa



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