Recombinant Human PDGF-BB Protein



Catalog No.: RP01763 Recombinant 1 Publications

Sequence Information

Species Gene ID **Swiss Prot** Human 5155 P01127

Tags

No-tag

Synonyms

SIS; SSV; IBGC5; PDGF2; c-sis; PDGF-2;PDGF subunit B;PDGF-BB;PDGFB

Product Information

Source

Purification

Pichia ≥ 90 % as determined by SDS-

PAGE.

Calculated MW Observed MW

12.30 kDa 10-17 kDa

Endotoxin

< 0.1 EU/µg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 µm filtered solution of 20mM NaAc∏pH 4.5.

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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

<u>a</u>	400-999-6126
\bowtie	cn.market@abclonal.com.cn
•	www.abclonal.com.cn

Background

Platelet-derived growth factor-B (PDGFB) is necessary for normal cardiovascular development. The administration of PDGFB alone normalized tumor vasculature by increasing periendothelial coverage and vascular functionality. Interestingly, this effect exerted by PDGFB was also observed in the presence of DAPT. So PDGFB is able to improve tumor vascularity and allows the anticancer action of DAPT in the tumor.

Basic Information

Description

Recombinant Human PDGF-BB Protein is produced by Pichia expression system. The target protein is expressed with sequence (Ser82-Thr190) of human PDGF-BB (Accession #NP 002599.1) fused with a additional amino acid free.

Bio-Activity

1.Immobilized PDGF-BB (Catalog: RP01763) at 2 µg/mL (100 µL/well) can bind Human PDGFRB (Catalog: RP00126) with a linear range of 0.1-75.4 ng/mL.2.Recombinant Human PDGF-BB Protein was measured in a cell proliferation assay using BALB/3T3 mouse fibroblasts. The ED50 for this effect is 2.09-8.36 ng/mL, corresponding to a specific activity of 1.20×105~4.78×105 units/mg.

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

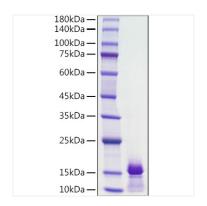
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

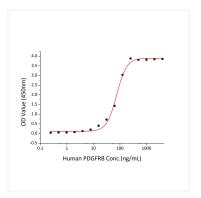
Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

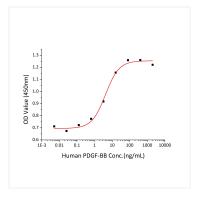
Validation Data



Recombinant Human PDGF-BB Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized PDGF-BB (Catalog: RP01763) at 2 μ g/mL (100 μ L/well) can bind Human PDGFRB (Catalog: RP00126) with a linear range of 0.1-75.4 ng/mL.



Recombinant Human PDGF-BB Protein was measured in a cell proliferation assay using BALB/3T3 mouse fibroblasts. The ED $_{50}$ for this effect is 2.09-8.36 ng/mL, corresponding to a specific activity of $1.20\times10^5\sim4.78\times10^5$ units/mg.