

# Recombinant Human PDGF-BB Protein

Catalog No.: RP01763 **Recombinant**

## 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
<i>Pichia</i>	

Calculated MW	Observed MW
12.30 kDa	10-17 kDa

### Endotoxin

&lt; 0.1EU/μg

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

## Contact

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## 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 1.20×10<sup>5</sup>~4.78×10<sup>5</sup> units/mg.

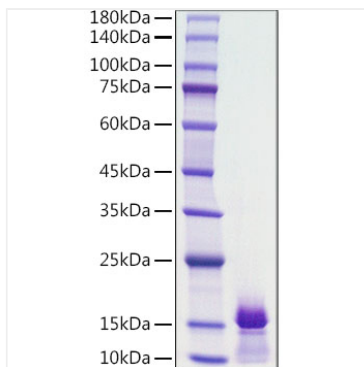
### Storage

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

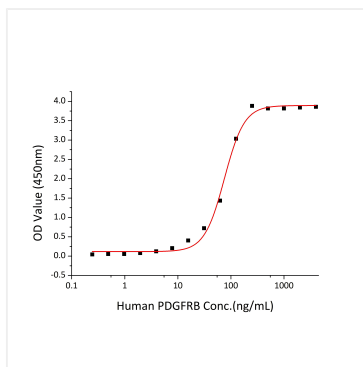
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

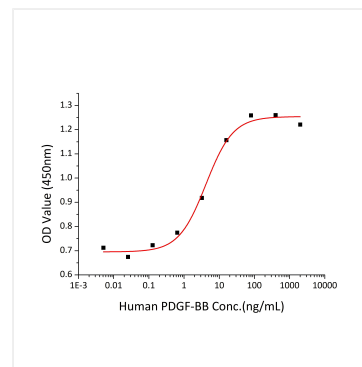
## Validation Data



Recombinant Human PDGF-BB Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 10-17 kDa.



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