



# Recombinant Protein Technical Manual

**Recombinant Human PDGF-BB Protein (His Tag)(Active)**  
RPES3218

## Product Data:

**Product SKU:** RPES3218

**Size:** 50µg

**Species:** Human

**Expression host:** Yeast

**Uniprot:** NP\_148937.1

## Protein Information:

**Molecular Mass:** 14.3 kDa

**AP Molecular Mass:**

**Tag:** N-His

**Bio-activity:** Measured by its binding ability in a functional ELISA.2. Immobilized human PDGFB at 10µg/mL (100µL/well) can bind human PDGFRβ-Fch, the EC50 of human PDGFRβ-Fch is 0.05-0.2 µg/mL.

**Purity:** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin:** Please contact us for more information.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from sterile PBS, 25 % Glycerol, pH 7.4

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:** Functional ELISA

**Synonyms:** Platelet-Derived Growth Factor Subunit B; PDGF Subunit B; PDGF-2; Platelet-Derived Growth Factor B Chain; Platelet-Derived Growth Factor Beta Polypeptide; Proto-Oncogene c-Sis; Becaplermin; PDGFB; PDGF2; SIS

## Immunogen Information:

**Sequence:** Ser82-Thr190

## Background:

Platelet-Derived Growth Factor Subunit B (PDGFB) belongs to the PDGF/VEGF growth factor family. Platelet-derived growth factor is a potent mitogen for cells of mesenchymal origin. 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. Binding of PDGFB to its receptor elicits a variety of cellular responses. In addition, PDGFB is released by platelets upon wounding and plays an important role in stimulating adjacent cells to grow and thereby heals the wound.