Data Sheet (Cat.No.TMPJ-00735)

TargetMol

PDGF-BB Protein, Human, Recombinant

General Information

Synonyms:	PDGF-BB;PDGFBB
Protein Construction:	Ser82-Thr190
Species:	Human
Expression Host:	E. coli
Accession:	P01127
Molecular Weight:	14 KDa (reducing condition)
AA Sequence:	Ser82-Thr190

QC Testing

Biological Activity:	Measured in a cell proliferation assay using BALB/c 3T3 cells. The ED50 for this effect is 5-20 ng/ml. (QC verified)
Purity:	Greater than 98% as determined by reducing SDS-PAGE. Greater than 95% as determined by SEC-HPLC.
Endotoxin:	< 0.02 ng/μg (0.2 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a 0.2 μm filtered solution of 20 mM NaAC-HAC,4% Mannitol, pH 4.5.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein 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.

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