

PDGF-BB Protein, Bovine, Recombinant

General Information

Synonyms:	PDGF-BB;PDGFBB
Protein Construction:	Ser82-Thr190
Species:	Bovine
Expression Host:	P. pastoris (Yeast)
Accession:	B1H0W5
Molecular Weight:	12 kDa (Predicted); 10-18 kDa (Reducing conditions)

QC Testing

Biological Activity:	ED 50 < 20.00 ng/ml as determined by a dose-response proliferation assay using murine Balb/c 3T3 cells. Based on the ED 50, the calculated specific activity is approximately > 0.5 × 10 ⁵ IU/mg. It is recommended to experimentally determine the optimal concentration for each specific application by performing a dose response assay.
Purity:	≥ 95% as determined by SDS-PAGE
Endotoxin:	< 0.1 EU/μg of protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 μm filtered solution in 20 mM NaAc, pH 5.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized 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:

Upon receiving, the lyophilized product remains stable for up to 6 months at lower than -70 °C. Upon reconstitution, the product is stable for up to 1 week at 4 °C or up to 3 months at -20 °C. Avoid repeated freeze-thaw cycles by making single-use aliquots before the solution is storage at -20 °C.

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 (PDGF) presenting in serum but absent from plasma was first discovered in an animal study by Lynch and co-workers in the late 1980s. It is a disulfide-linked dimer consisting of two peptides-chain A and chain B. PDGF has three subforms: PDGF-AA, PDGF-BB, and PDGF-AB. It is involved in many biological processes, including hyperplasia, embryonic neuron development, chemotaxis, and respiratory tubule epithelial cell development. The function of PDGF is mediated by two receptors (PDGFR-α and PDGFR-β).

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