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PDGF-BB

Catalog # PVGS1685

Specification

PDGF-BB - Product Information

Primary Accession B1H0W5

Species
Bovine

Sequence
Ser82-Thr190

Purity
≥ 95% as analyzed by SDS-PAGE

Endotoxin Level
< 0.1 EU/ µg of protein by gel clotting method

Biological Activity
ED₅₀ < 20.00 ng/ml as determined by a dose-response proliferation assay using murine Balb/c 3T3 cells. Based on the ED₅₀, the calculated specific activity is approximately > 0.5 × 10⁵ IU/mg. It is recommended to experimentally determine the optimal concentration for each specific application by performing a dose response assay.

Expression System
P. pastoris

Theoretical Molecular Weight
12 kDa

Formulation **Lyophilized from a 0.2 µm filtered solution in 20 mM NaAc, pH 5.0.**

Reconstitution
Before opening, centrifuge the vial briefly to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH₂O up to 100 µg/ml.

Storage & Stability
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.

PDGF-BB - Additional Information

Target 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).

PDGF-BB - Protein Information

PDGF-BB - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PDGF-BB - Images