

Rev03
Update: Aug,08,2025**DATASHEET**

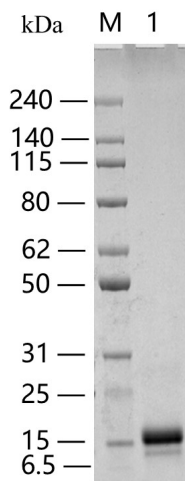
PDGF-BB, Bovine

Cat. No.: Z03725

Product Introduction

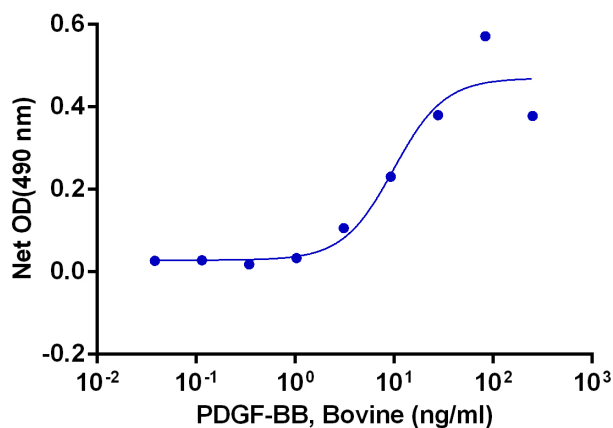
Species	Bovine
Protein Construction	PDGF-BB (Ser82-Thr190) Accession # B1H0W5
Purity	≥ 95% as analyzed by SDS-PAGE
Endotoxin Level	< 0.1 EU/μg of protein by gel clotting method
Biological Activity	ED ₅₀ < 20.00 ng/ml as determined by a dose-response proliferation assay using murine Balb/c 3T3 cells. 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.
Expression System	P. pastoris
Theoretical Molecular Weight	12 kDa
Apparent Molecular Weight	10-18 kDa, on SDS-PAGE under reducing conditions.
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 ddH ₂ O 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.

Examples



Lane 1: 2 µg of PDGF-BB, Bovine, reducing (R)

The purity is greater than 95% as analyzed by SDS-PAGE



The ED₅₀ as determined by a cell proliferation assay using mice Balb/c 3T3 cells is 9.86 ng/ml.

Background

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).

Synonyms : PDGFBB; PDGF-BB

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.

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