

Recombinant Bovine PDGF-BB Protein, Ser82-Thr190

Cat. No. Pdgfb-23B **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Bovine PDGF-BB Protein (Ser82-Thr190) without tag was expressed in <i>P. pastoris</i> .
Species	Bovine
Source	<i>P.pastoris</i>
ProteinLength	Ser82-Thr190
Description	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).
Bio-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 × 10 ⁵ IU/mg. It is recommended to experimentally determine the optimal concentration for each specific application by performing a dose response assay.
Molecular Mass	Theoretical Molecular Weight: 12 kDa Apparent Molecular Weight: 10-18 kDa, on SDS-PAGE under reducing conditions.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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Endotoxin	< 0.1 EU/μg of protein by gel clotting method
Purity	≥ 95% as analyzed by SDS-PAGE
Storage	Upon receiving, the lyophilized product remains stable for up to 6 months at lower than -70 centigrade. Upon reconstitution, the product is stable for up to 1 week at 4 centigrade or up to 3 months at -20 centigrade. Avoid repeated freeze-thaw cycles by making single-use aliquots before the solution is storage at -20 centigrade.
Storage Buffer	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.

GENE INFORMATION

Gene Name	PDGFB platelet derived growth factor subunit B [Bos taurus (cattle)]
Official Symbol	PDGFB
Synonyms	PDGFB; platelet derived growth factor subunit B; platelet-derived growth factor subunit B; platelet-derived growth factor B; platelet-derived growth factor beta polypeptide (simian sarcoma viral (v-sis) oncogene homolog); v-sis platelet-derived growth factor beta polypeptide (simian sarcoma viral oncogene homolog)
Gene ID	540106
mRNA Refseq	NM_001017953
Protein Refseq	NP_001017953

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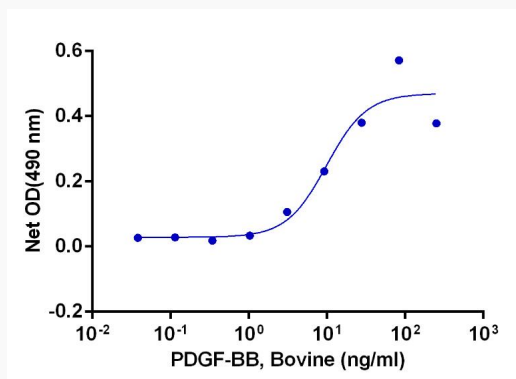
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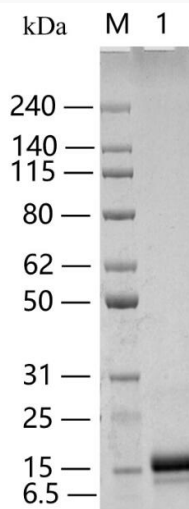
UniProt ID

B1H0W5

Activity



SDS-PAGE



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