

## Recombinant Bovine PDGF-BB Protein, Ser82-Thr190

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

### SPECIFICATION

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

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<b>Endotoxin</b>	< 0.1 EU/μg of protein by gel clotting method
<b>Purity</b>	≥ 95% as analyzed by SDS-PAGE
<b>Storage</b>	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.
<b>Storage Buffer</b>	Lyophilized from a 0.2 μm filtered solution in 20 mM NaAc, pH 5.0.
<b>Reconstitution</b>	Before opening, centrifuge the vial briefly to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH <sub>2</sub> O up to 100 μg/mL.

## GENE INFORMATION

<b>Gene Name</b>	PDGFB platelet derived growth factor subunit B [ <i>Bos taurus</i> (cattle) ]
<b>Official Symbol</b>	PDGFB
<b>Synonyms</b>	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)
<b>Gene ID</b>	540106
<b>mRNA Refseq</b>	NM_001017953
<b>Protein Refseq</b>	NP_001017953

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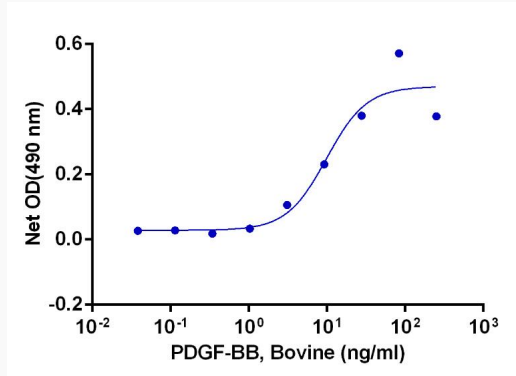
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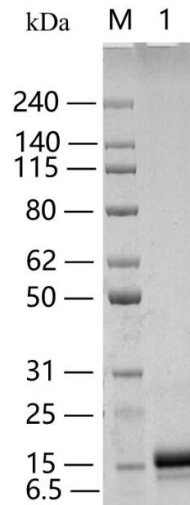
UniProt ID

B1H0W5

Activity



SDS-PAGE



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