Rev06
Update: Aug,20,2025

DATASHEET

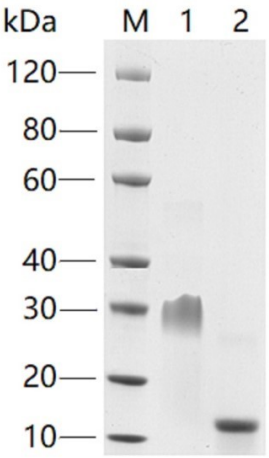
PDGF-BB, Human

Cat. No.: Z03707

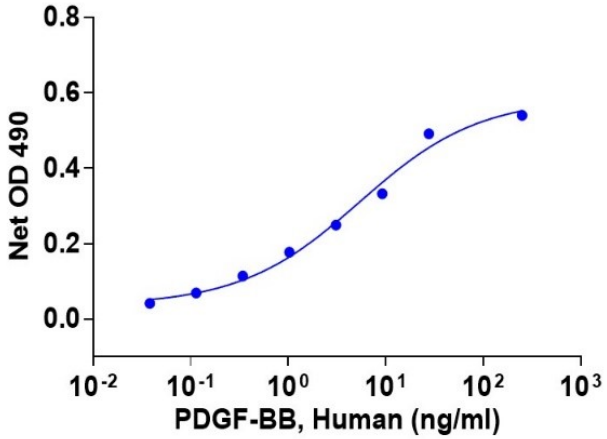
Product Introduction

Species	Human
Protein Construction	PDGF-BB (Ser82-Thr190) Accession # P01127
Purity	⩾ 98% as analyzed by SDS-PAGE
Endotoxin Level	⩽ 0.2 EU/μg of protein by gel clotting method
Biological Activity	Measured in a cell proliferation assay using BALB/c 3T3 cells, the ED_{50} for this effect is less than 10 ng/ml
Expression System	E. coli
Theoretical Molecular Weight	24.8 kDa
Apparent Molecular Weight	~25 kDa, on SDS-PAGE under non-reducing conditions.
Formulation	Lyophilized from a 0.2 μm filtered solution in 20 mM NaAc-HAc, pH 4.5.
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in distilled water up to 100 μg/ml.
Storage & Stability	Upon receiving, this product remains stable for 6 months at lower than -70°C. Upon reconstitution, the product should be stable for 1 week at 4°C or for 3 months at -20°C. Avoid repeated freeze-thaw cycles.

Examples



Lane 1: 2 μg of PDGF-BB, Human, non-reducing (N)
Lane 2: 2 μg of PDGF-BB, Human, reducing (R)
⩾ 98% as analyzed by SDS-PAGE



The ED_{50} as determined by a cell proliferation assay using BALB/c 3T3 cells is 5.42 ng/ml.

Background

Target Background : Platelet-derived growth factor (PDGF) presenting in serum but absent from plasma was first discovered in 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, PDGF-AB. It is involved in a number of 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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