

Rev04
Update: Jan,19,2024

DATASHEET

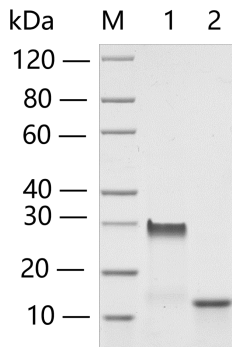
PDGF-BB, Rat

Cat. No.: Z03179

Product Introduction

Species	Rat
Protein Construction	Expressed with an N-terminal Met. PDGF-BB (Ser74-Thr182) Accession # Q05028
Purity	> 95% as analyzed by SDS-PAGE
Endotoxin Level	< 0.2 EU/μg of protein by gel clotting method
Biological Activity	ED ₅₀ < 2.0 ng/ml, measured by a cell proliferation assay using 3T3 Cells, corresponding to a specific activity of > 5.0 × 10 ⁵ units/mg.
Expression System	E. coli
Apparent Molecular Weight	~24.6 kDa, on SDS-PAGE under non-reducing conditions.
Formulation	Lyophilized after extensive dialysis against 20 mM acetic acid.
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 20 mM acetic acid up to 100 μg/ml.
Storage & Stability	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Examples



Lane 1: 2 μ g of PDGF-BB, Rat, non-reducing (NR)

Lane 2: 2 μ g of PDGF-BB, Rat, reducing (R)

> 95% as analyzed by SDS-PAGE

Background

Target Background : Platelet-Derived Growth Factor-BB (PDGF-BB) is one of five dimers (PDGF-AA, AB, BB, CC, and DD) formed by 4 different PDGF subunits. In vivo, PDGF-BB is mainly produced in heart and placenta, and predominantly expressed by osteoblasts, fibroblasts, smooth muscle cells, and glial cells. An inactive precursor of PDGF-BB is produced in the endoplasmic reticulum and then activated by a proprotein convertase after secretion. PDGF-BB functions in a paracrine manner and promotes organogenesis, human skeletal development, and wound healing. PDGF-BB also promotes angiogenesis, particularly in the presence of Fibroblast Growth Factor basic. Therefore, PDGF-BB and its related pathways are potential pharmacological targets.

Synonyms : PDGFBB; IBGC5; PDGF-2; PDGF2; SIS; SSV; c-sis; platelet derived growth factor subunit B

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

生产商：南京金斯瑞生物科技有限公司 江苏省南京市江宁区科学园雍熙路28号

Manufacturer: Nanjing GenScript Biotech Co., Ltd. No. 28Yongxi Road, Jiangning District, Nanjing, Jiangsu, China