

Rev03
Update: Dec,14,2021

DATASHEET

PDGF-BB, Mouse

Cat. No.: Z03096

Product Introduction

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| Species | Mouse |
| Protein Construction | Expressed with an N-terminal Met. PDGF-BB (Ser82-Thr190) Accession # P31240 |
| Purity | > 95% as analyzed by SDS-PAGE |
| Endotoxin Level | < 0.2 EU/μg of protein by gel clotting method |
| Biological Activity | ED ₅₀ < 2.5 ng/ml, measured by a cell proliferation assay using 3T3 Cells, corresponding to a specific activity of > 4.0 × 10 ⁵ units/mg. |
| Expression System | E. coli |
| Apparent Molecular Weight | ~24.7 kDa, on SDS-PAGE under non-reducing conditions. |
| Formulation | Lyophilized after extensive dialysis against 10 mM sodium citrate, pH 3.0. |
| 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 ddH ₂ O 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. |

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

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