

Rev03
Update: Dec,14,2021

DATASHEET

PDGF-AA, Mouse

Cat. No.: Z03276

Product Introduction

Species	Mouse
Protein Construction	Expressed with an N-terminal Met. PDGF-AA (Ser87-Thr211) Accession # P20033
Purity	> 95% as analyzed by SDS-PAGE
Endotoxin Level	< 0.2 EU/μg of protein by gel clotting method
Biological Activity	ED ₅₀ < 50.0 ng/ml, measured in a cell proliferation assay using 3T3 cells.
Expression System	E. coli
Apparent Molecular Weight	~28.7 kDa, on SDS-PAGE under reducing conditions.
Formulation	Lyophilized after extensive dialysis against PBS.
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-AA (PDGF-AA) is one of five dimers (PDGF-AA, AB, BB, CC, and DD) formed by 4 different PDGF subunits. In chemical terms, platelet-derived growth factor is a dimeric glycoprotein composed of two A (-AA) or two B (-BB) chains or a combination of the two (-AB). The dimeric isoforms PDGFAA, AB and BB are differentially expressed in various cell types, and their effects are mediated through two distinct receptors termed α and β . Differences exist in isoform binding to each receptor. In general, PDGF isoforms are potent mitogens for connective tissue cells including dermal fibroblasts, glial cells, arterial smooth muscle cells and some epithelial and endothelial cells. In addition to its activity as a mitogen, PDGF is chemotactic for fibroblasts, smooth muscle cells, neutrophils and mononuclear cells. PDGF-AA plays a significant role in blood vessel formation (angiogenesis).

Synonyms : PDGFAA; Platelet-Derived Growth Factor-AA; Glioma-derived growth factor; GDGF; Osteosarcoma-derived Growth Factor; ODGF

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