

Rev03  
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**DATASHEET**

# PDGF-DD, Human

Cat. No.: Z03195

## Product Introduction

<b>Species</b>	Human
<b>Protein Construction</b>	PDGF-DD (Ser250-Arg370) Accession # Q9GZP0
<b>Purity</b>	> 95% as analyzed by SDS-PAGE
<b>Endotoxin Level</b>	< 0.2 EU/ $\mu$ g of protein by gel clotting method
<b>Biological Activity</b>	ED <sub>50</sub> < 5.0 $\mu$ g/ml, measured in a cell proliferation assay using 3T3 cells.
<b>Expression System</b>	CHO
<b>Apparent Molecular Weight</b>	19~21 kDa, on SDS-PAGE under reducing conditions.
<b>Formulation</b>	Lyophilized after extensive dialysis against PBS.
<b>Reconstitution</b>	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 <sub>2</sub> O or PBS up to 100 $\mu$ g/ml.
<b>Storage &amp; Stability</b>	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 :** PDGF-DD, also known as platelet-derived growth factor D, IEGF and SCDGFB, is a secreted growth factor belonging to the PDGF/VEGF family. It is highly expressed in the heart, pancreas, adrenal glands and ovary. PDGF-DD forms functional homodimers that bind and induce PDGF R $\beta$  homodimers and PDGF R $\alpha$ / $\beta$  heterodimers that promote intracellular signaling. This plays an important role in the regulation of cell differentiation, migration and survival. It has also been reported that PDGF-DD can induce monocyte and macrophage recruitment, increase interstitial pressure and facilitate wound healing.

**Synonyms :** PDGFDD; IEGF; SCDGF-B; SCDGFB; MSTP036; platelet derived growth factor D

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