



Platelet Derived Growth Factor-D, His tag, human recombinant (rHuPDGFD-His)

Catalog No: 97588
Lot No: XXXXX
Source: *E. coli*
Synonyms: Platelet Derived Growth Factor D, Spinal Cord-Derived Growth Factor B, Iris-Expressed Growth Factor, SCDGF-B, IEGF, PDGF-D, MSTP036

Background

Platelet-derived growth factor D (PDGFD) belongs to the platelet-derived growth factor family. PDGFD gene product only forms homodimers and, thus, does not dimerize with the other 3 family members. PDGFD has an imperative role in wound healing. PDGFD induces macrophage recruitment, increased interstitial pressure, and blood vessel maturation during angiogenesis. PDGFD initiates events which lead to a mesangial proliferative glomerulonephritis, including influx of monocytes and macrophages and production of extracellular matrix. The 4 members of the PDGF family are mitogenic factors for cells of mesenchymal origin and are distinguished by a core motif of eight cysteines, 7 of which are found in this factor. PDGFD differs from alpha and beta members of this family by having an odd N-terminal domain, the CUB domain.

Description

PDGFD human recombinant produced in *E. coli* is a single polypeptide chain containing 146 amino acids (250-370) and having a molecular mass of 16.6 kDa. PDGFD is fused to a 25 amino acid His Tag at N-terminus and purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered colorless solution.

Formulation

The PDGFD solution (1 mg/1 ml) contains 20 mM Tris-HCl buffer (pH 8.0), 0.4 M urea and 10% glycerol.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Purity

Greater than 90% as determined by SDS-PAGE.

Amino Acid Sequence

MGSSHHHHHH SGLVPRGSH MGSHMSYHDR KSKVDLDRLN DDAKRYSTP RNYSVNIREE LKLANVFFP RCLLVQRCGG
NCGCGTVNWR SCTCNSGKTV KKYHEVLQFE PGIKRRGRA KTMALVDIQL DHERCDCIC SSRPPR

Usage

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