# PDGFD siRNA – Platelet-Derived Growth Factor D (Mouse)

## PRODUCT OVERVIEW

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| **Product Name** | PDGFD, siRNA |
| **Full Product Name** | PDGFD siRNA (Mouse) |
| **Product Gene Name** | PDGFD sirna |
| **Product Synonym Names** | SCDGFB; Platelet-derived growth factor D; PDGF-D; Spinal cord-derived growth factor B; SCDGF-B |
| **Host** | Synthetic |
| **Species Reactivity** | Mouse |
| **Form/Format** | Lyophilized powder |
| **Purity/Purification** | > 97% |
| **Specificity** | PDGFD siRNA (Mouse) is a target-specific 19-23 nt siRNA oligo duplexes designed to knock down gene expression. |
| **Preparation and Storage** | Shipped at 4 degree C. Store at -20 degree C for one year. |
| **Molecular Weight** | 30,289 Da |
| **3D Structure** | ModBase 3D Structure for Q925I7 |
| **Negative Control** | siRNA Negative Control (Catalog# MBS8241404) is a non-targeting 21 nt siRNA recommended as a negative control for experiments using targeted siRNA transfection. |
| **Quality Control** | Oligonucleotide synthesis is monitored base by base through trityl analysis to ensure appropriate coupling efficiency. The oligo is subsequently purified by affinity-solid phase extraction. The annealed RNA duplex is further analyzed by mass spectrometry to verify the exact composition of the duplex. Each lot is compared to the previous lot by mass spectrometry to ensure maximum lot-to-lot consistency. |
| **Directions for Use** | We recommends transfection with 100 nM siRNA 48 to 72 hours prior to cell lysis. Before resuspending, briefly centrifuge the tube to ensure the lyophilized siRNA is at the bottom of the tube. Resuspend the siRNA oligos to an appropriate concentration with DEPC water. For each vial, suitable for 250 transfections in 24 well plate (20 pmol for each well). |
| **Components** | We offer pre-designed sets of 3 different target-specific siRNA oligo duplexes of mouse PDGFD gene. Each vial contains 5 nmol of lyophilized siRNA. The duplexes can be transfected individually or pooled together to achieve knockdown of the target gene, which is most commonly assessed by qPCR or western blot. Our siRNA oligos are also chemically modified (2'-OMe) at no extra charge for increased stability and enhanced knockdown in vitro and in vivo. |
| **Applications Tested/Suitable for PDGFD sirna** | RNA Interference (RNAi) |
| **Related Product Information for PDGFD sirna** | MBS8205139 is an siRNA targeting PDGFD. Also known as PDGFD siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit PDGFD expression using RNA interference |
| **Other Notes** | Small volumes of PDGFD sirna vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PDGFD. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 27229137 |

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| **NCBI GeneID** | 71785 |
| **NCBI Accession #** | NP_082200.1 |
| **UniProt Primary Accession #** | Q925I7 |
| **UniProt Secondary Accession #** | Q3URF6; Q8K2L3; Q9D1L8 |
| **UniProt Related Accession #** | Q925I7 |
| **GenBank Nucleotide #** | NM_027924.2 |
| **NCBI Official Full Name** | platelet-derived growth factor D |
| **NCBI Official Synonym Full Names** | platelet-derived growth factor, D polypeptide |
| **NCBI Official Symbol** | Pdgfd |
| **NCBI Official Synonym Symbols** | 1110003I09Rik |
| **UniProt Protein Name** | Platelet-derived growth factor D |
| **UniProt Synonym Protein Names** | Spinal cord-derived growth factor B; SCDGF-B |
| **Protein Family** | Platelet-derived growth factor |
| **UniProt Gene Name** | Pdgfd |
| **UniProt Synonym Gene Names** | Scdgfb; PDGF-D; SCDGF-B; PDGFD latent form; PDGFD receptor-binding form |
| **UniProt Entry Name** | PDGFD_MOUSE |
| **NCBI Protein Information** | platelet-derived growth factor D |
| **UniProt Comments for PDGFD** | PDGFD: Growth factor that plays an essential role in the regulation of embryonic development, cell proliferation, cell migration, survival and chemotaxis. Potent mitogen for cells of mesenchymal origin. Plays an important role in wound healing. Induces macrophage recruitment, increased interstitial pressure, and blood vessel maturation during angiogenesis. Can initiate events that lead to a mesangial proliferative glomerulonephritis, including influx of monocytes and macrophages and production of extracellular matrix. Belongs to the PDGF/VEGF growth factor family. 2 isoforms of the human protein are produced by alternative splicing.<br><br>Protein type: Secreted, signal peptide; Oncoprotein; Secreted<br><br>Cellular Component: extracellular space; membrane; extracellular region<br><br>Molecular Function: growth factor activity; platelet-derived growth factor receptor binding<br><br>Biological Process: positive regulation of cell division; multicellular organismal development; platelet-derived growth factor receptor signaling pathway; regulation of peptidyl-tyrosine phosphorylation; cellular process |
| **Research Articles on PDGFD** | **1.** PDGF-D intensifies fibrogenesis by interfering with the fibrolytic activity of the TIMP-1/MMP-2/MMP-9 system, and PDGF-D signaling is mediated through both PDGF-alpha and -beta receptors. |
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