

PDGF-DD Protein, Mouse (His-SUMO)

Cat. No.:	HY-P71615
Synonyms:	Pdgfd; Scdgb; Platelet-derived growth factor D; PDGF-D; Spinal cord-derived growth factor B; SCDGF-B
Species:	Mouse
Source:	E. coli
Accession:	Q925I7 (24T-370R)
Gene ID:	71785
Molecular Weight:	Approximately 66 kDa

PROPERTIES

AA Sequence	<pre> T P Q R A S I K A L R N A N L R R D E S N H L T D L Y Q R E E N I Q V T S N G H V Q S P R F P N S Y P R N L L L T W W L R S Q E K T R I Q L S F D H Q F G L E E A E N D I C R Y D F V E V E E V S E S S T V V R G R W C G H K E I P P R I T S R T N Q I K I T F K S D D Y F V A K P G F K I Y Y S F V E D F Q P E A A S E T N W E S V T S S F S G V S Y H S P S I T D P T L T A D A L D K T V A E F D T V E D L L K H F N P V S W Q D D L E N L Y L D T P H Y R G R S Y H D R K S K V D L D R L N D D V K R Y S C T P R N H S V N L R E E L K L T N A V F F P R C L L V Q R C G G N C G C G T V N W K S C T C S S G K T V K K Y H E V L K F E P G H F K R R G K A K N M A L V D I Q L D H H E R C D C I C S S R P P R </pre>
Appearance	Lyophilized powder
Formulation	Lyophilized after extensive dialysis against solution in 10 mM Tris-HCl, 1 mM EDTA, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	PDGF-DD Protein emerges as a crucial growth factor governing embryonic development, cell proliferation, migration, survival, and chemotaxis. Renowned for its potent mitogenic effects on mesenchymal cells, PDGF-DD assumes a pivotal role in wound healing and, intriguingly, harbors oncogenic potential capable of inducing tumor formation. Its influence extends to the intricate orchestration of events during angiogenesis, promoting macrophage recruitment, heightened interstitial
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pressure, and blood vessel maturation. PDGF-DD's involvement is notable in the initiation of processes leading to mesangial proliferative glomerulonephritis, marked by monocyte and macrophage influx, as well as extracellular matrix production. Structurally, PDGF-DD exists as a homodimer linked by disulfide bonds, engaging in interactions with PDGFRB homodimers and heterodimers formed by PDGFRA and PDGFRB, contributing to its versatile regulatory mechanisms.

Caution: Product has not been fully validated for medical applications. For research use only.

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