

Recombinant Rat PDGFD Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52570

Size: 10ug, 100ug

Protein Name: Platelet-derived growth factor D (PDGF-D) (Iris-expressed growth factor) (Spinal cord-derived growth factor B) (SCDGF-B) [Cleaved into: Platelet-derived growth factor D, latent form (PDGFD latent form); Platelet-derived growth factor D, receptor-binding form (PDGFD receptor-binding form)]

Synonym: Pdgfd, legf, Scdgfb

UniProt ID: Q9EQT1

UniProt Link: www.uniprot.org/uniprotkb/Q9EQT1/entry

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 370 AA

Molecular Weight: 43 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MHRLILVSILVCANFCCYRDTFATPQSASIKALRNANLRRDESNHLTDLYRRDENIRVTGTGHVQSPR
FPNSYPRNLLLTWRLHSQEKTRIQLAFDHQFGLLEEAENDICRYDFVEVEDVSESSTVVRGRWCGHK
EIPPRITSRTNQIKITFQSDDYFVAKPGFKIYYSFVEDFQPEAAASEINWESVTSSFSGVSYHSPSVMDS
TLTADALDKAIAEFDTVEDLLKYFNPASWQDDLENLYMDTPRYRGRSYHERKSKVDLDRLNDDVKR
YSCTPRNHSVNLREELKLTNAVFFPRCLLVQRCGGNCGCGTLNWKSTCSSGKTVKKYHEVLKFEP
GHFKRRGKAKNMALVDIQLDHHERCDCICSSRPPR

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Platelet-derived growth factor D (PDGF-D) (Iris-expressed growth factor) (Spinal cord-derived growth factor B) (SCDGF-B) [Cleaved into: Platelet-derived growth factor D, latent form (PDGFD latent form); Platelet-derived growth factor D, receptor-binding form (PDGFD receptor-binding form)] produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: 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 (By similarity). May play an important role in control of lens epithelial cell proliferation. Can initiate events that lead to a mesangial proliferative glomerulonephritis, including influx of monocytes and macrophages and production of extracellular matrix.

Subcellular Localization: Secreted . Note=Released by platelets upon wounding.

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.