

Recombinant Rat PDGFA Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52328

Size: 10ug, 100ug

Protein Name: Platelet-derived growth factor subunit A (PDGF subunit A) (PDGF-1)
(Platelet-derived growth factor A chain) (Platelet-derived growth factor alpha polypeptide)

Synonym: Pdgfa, Rpa1

UniProt ID: P28576

UniProt Link: www.uniprot.org/uniprotkb/P28576/entry

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 204 AA

Molecular Weight: 23 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MRTWACLLLLGCGYLAHALAEAEIPRELIERLARSQIHSIRDLQRLLEIDSVGAEDALETNLRAGSH
TVKHVPEKRPVPIRRKRSIEEAIPAVCKTRTVIYEIPRSQVDPTSANFLIWPPCVEVKRCTGCCNTSSV
KCQPSRVHHRSVKVAKVEYVRKKPKLKEVQVRLEEHLACACATSNLNPDHREEETGRRRESGKKR
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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 subunit A (PDGF subunit A) (PDGF-1) (Platelet-derived growth factor A chain) (Platelet-derived growth factor alpha polypeptide) 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. Required for normal lung alveolar septum formation during embryogenesis, normal development of the gastrointestinal tract, normal development of Leydig cells and spermatogenesis. Required for normal oligodendrocyte development and normal myelination in the spinal cord and cerebellum. Plays an important role in wound healing. Signaling is modulated by the formation of heterodimers with PDGFB (By similarity).

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.