

Recombinant Mouse PLMN Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51313

Size: 10ug, 100ug

Protein Name: Plasminogen [Cleaved into: Plasmin (EC 3.4.21.7); Plasmin heavy chain A; Plasmin light chain B; Angiostatin]

Synonym: Plg

UniProt ID: P20918

UniProt Link: www.uniprot.org/uniprotkb/P20918/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 812 AA

Molecular Weight: 91 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MDHKEVILLFLLLLKPGQGDSLDGYISTQGASLFSLTKKQLAAGGVSDCLAKCEGETDFVCRSFQYH
SKEQQCVIMAENSKTSSIIRMRDVILFEKRVYLSECKTGIGNGYRGTMSTKSGVACQKWGATFPHV
PNYSPSTHPNEGLEENYCRNPDNDEQGPWCYTTPDKRYDYCNIPCEEEECMYCSGEKYEGKISK
TMSGLDCQAWDSQSPHAHGYPKFPKSKNLKMNYCRNPDGEPRPWCFTTDPDKRWEYCDIPRCTT
PPPPSPPTYQCLKGRGENYRGTVSVTVSGKTCQRWSEQTTPHRHNRTPENFPCKNLEENYCRNPD
GETAPWCYTTPDSQLRWEYCEIPSCCESSASPDQSDSSVPPEEQTPVVQECYQSDGQSYRGTSSTTIT
GKKCQSWAAMFPHRHSKTPENFPDAGLEMNYCRNPDGDKGPWCYTTPSVRWEYCNLKRCSET
GGSVVELPTVSQEPSGPSDSETDCMYGNGKDYRGKTAVTAAGTPCQGWAQEPHRHSIFTPQTNP
RAGLEKNYCRNPDGDVNGPWCYTTPNPKLYDYCDIPLCASASSFECGKPQVEPKKCPGRVVGCV
ANPHSWPWQISLRTRFTGQHFCGGTLIAPEWVLTAAHCLEKSSRPEFYKVILGAHEEYIRGLDVQEIS
VAKLILEPNNRDIALLLSRPATITDKVIPACLPSPNYMVADRTICYITGWGETQGTFGAGRLKEAQLP
VIENKVCNRVEYLNNRVKSTELCAGQLAGGVDSCQGDSSGGLVCFEKDKYILQGVTSWGLGCARP
NKPGVYVRVSRFVDWIEREMRNN

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 Plasminogen [Cleaved into: Plasmin (EC 3.4.21.7); Plasmin heavy chain A; Plasmin light chain B; Angiostatin] 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: [Plasmin]: Protease which primary function is to degrade fibrin, the main component of blood clots. Also cleaves other components of blood clots like thrombospondin-1/THBS1 and von Willebrand factor/VWF. Can also directly and/or through the activation of other proteases degrade the various components of the extracellular matrix including collagen, fibronectin and laminin. Thereby, regulates a variety of biological processes including embryonic development, tissue remodeling, and inflammation (By similarity). In ovulation, weakens the walls of the Graafian follicle (By similarity). In vitro, it is also able to cleave several complement zymogens, such as C1, C4 and C5 (By similarity).; [Angiostatin]: Has an antiangiogenic activity and inhibits neovascularization. Could act through the inhibition of the ATP synthase subunit ATP5F1A.

Subcellular Localization: [Plasmin]: Secreted . Note=Locates to the cell surface where it is proteolytically cleaved to produce the active plasmin. Interaction with HRG tethers it to the cell surface.; [Angiostatin]: Secreted .

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.