

# Recombinant Mouse PRAP1 Protein

**For Research Use Only**

## 1. Basic Product Information

Catalog No.: REP51717

Size: 10ug, 100ug

Protein Name: Proline-rich acidic protein 1 (Pregnancy-specific uterine protein) (Uterine-specific proline-rich acidic protein)

Synonym: Prap1, Upa

UniProt ID: Q80XD8

UniProt Link: [www.uniprot.org/uniprotkb/Q80XD8/entry](http://www.uniprot.org/uniprotkb/Q80XD8/entry)

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 149 AA

Molecular Weight: 17 KD

Protein Tag: C-terminal His6

## 2. Amino Acid Sequence

MKRFLLATCLVAALLWEAGAAPAHQVPVKTKGKHVFPEQETEKVWDTRALEPLEKDNQLGPLLPEP  
KQKPAAAEKRPDAMTWVETEDILSHLRSPQLGPELDLDSIDHPMSDDVQDEEVPQSRPILYRQVLQ  
GPEEDLDHLAHSMEDS

## 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 Proline-rich acidic protein 1 (Pregnancy-specific uterine protein) (Uterine-specific proline-rich acidic protein) 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:** Lipid-binding protein which promotes lipid absorption by facilitating MTTP-mediated lipid transfer (mainly triglycerides and phospholipids) and MTTP-mediated apoB lipoprotein assembly and secretion (PubMed:33168624). Protects the gastrointestinal epithelium from irradiation-induced apoptosis (PubMed:32629119). May play an important role in maintaining normal growth homeostasis in epithelial cells (By similarity). Involved in p53/TP53-dependent cell survival after DNA damage (By similarity).

**Subcellular Localization:** Secreted . Endoplasmic reticulum .

## 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.