

# Recombinant Human MSMP Protein

**For Research Use Only**

## 1. Basic Product Information

Catalog No.: REP50684

Size: 10ug, 100ug

Protein Name: Prostate-associated microseminoprotein (PC3-secreted microprotein)

Synonym: MSMP, PSMP

UniProt ID: Q1L6U9

UniProt Link: [www.uniprot.org/uniprotkb/Q1L6U9/entry](http://www.uniprot.org/uniprotkb/Q1L6U9/entry)

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 139 AA

Molecular Weight: 15 KD

Protein Tag: C-terminal His6

## 2. Amino Acid Sequence

MALRMLWAGQAKGILGGWGIICLVMSLLLQHPGVYSKCYFQAQAPCHYEGKYFTLGESWLRKDCF  
HCTCLHPVGVGCCDTSQHPIDFPAGCEVRQEAGTCQFSLVQKSDPRLPCKGGGPDPEWGSANTPV  
PGAPAPHSS

## 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 Prostate-associated microseminoprotein (PC3-secreted microprotein) 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:** Acts as a ligand for C-C chemokine receptor CCR2 (PubMed:24442440). Signals through binding and activation of CCR2 and induces a strong chemotactic response and mobilization of intracellular calcium ions (PubMed:24442440). Exhibits a chemotactic activity for monocytes and lymphocytes but not neutrophils (PubMed:24442440).

**Subcellular Localization:** 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.