

Recombinant Chlamydia trachomatis pmpD Protein Product Manual

1. Product Basic Information

Product No.: REP07828

Protein Name: Polymorphic Outer Membrane Protein Pmp18D (pmpD)

Aliases: polymorphic outer membrane protein Pmp18D

UniProt ID: O84818

UniProt Link: <https://www.uniprot.org/uniprotkb/O84818/entry>

Species Source: Chlamydia trachomatis

Expression System: E.coli

Protein Length: partial (1244-1531aa)

Molecular Weight: 47.5kDa

Protein Tag: N-terminal 6xHis-SUMO-tagged

2. Amino Acid Sequence (1244-1531aa)

EFDYSTNVWGFAFGGFRTLSAENLVAIDGYKGAYGGASAGVDIQLMEDFVLGVSG
AAFLGKMDSQKFDAEVSRRKGVVGSVYTGFLAGSWFFKQYSLGETQNDMKTRYG
VLGESSASWTSRGLADALVEYRSLVGPVRPTFYALHFNPYVEVSYASMKFPGFTE
QGREARSFEDASLTNITPLGMKFELAFIKGQFSEVNSLGISYAWAYRKVEGGAVQ
LLEAGFDWEGAPMDLPRQELRVALENNTWSSYFSTVLGLTAFCGGFTSTDSKLG
YEANTGLRLIF

3. Storage Buffer

Liquid Delivery Form: Tris/PBS-based buffer with 5%-50% glycerol. Custom glycerol content is available upon customer request (please specify requirements when placing orders).

Lyophilized Powder Delivery Form: Pre-lyophilization buffer is Tris/PBS-based buffer containing 6% Trehalose.



4. Storage Conditions

Upon receipt, store the product at -20°C or -80°C. It is recommended to aliquot the protein for multiple uses to avoid repeated freeze-thaw cycles, which may cause protein denaturation and activity loss.

5. Product Description

This product is a recombinant *Chlamydia trachomatis* pmpD partial protein (1244-1531aa) expressed in *E.coli*. The protein is with 6xHis-SUMO tag at the N-terminus, which facilitates protein purification, detection and identification. pmpD, also known as polymorphic outer membrane protein Pmp18D, is suitable for related in vitro functional assays, protein interaction studies, antibody preparation and other biomedical research applications.

6. Notes

- Repeated freezing and thawing of the product is strictly prohibited to ensure protein stability and biological activity.
- For special buffer component requirements, please submit a note when purchasing.
- This product is only for scientific research use, not for clinical diagnosis, treatment or commercial production purposes.