

# Recombinant strain 168 ponA

## Protein Product Manual

### 1. Product Basic Information

**Product No.:** REP07843

**Protein Name:** Peptidoglycan Glycosyltransferase/Peptidoglycan Dd-Transpeptidase MrcA (ponA)

**Aliases:** peptidoglycan glycosyltransferase/peptidoglycan DD-transpeptidase MrcA

**UniProt ID:** P54660

**UniProt Link:** <https://www.uniprot.org/uniprotkb/P54660/entry>

**Species Source:** Bacillus subtilis (strain 168)

**Expression System:** E.coli

**Protein Length:** Partial (774-914aa)

**Molecular Weight:** 28.4 kDa

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

### 2. Amino Acid Sequence (774-914aa)

AVSDDGKSTASTSYEVPKAEDDEDKDKQQQTDDDEKQDDEKTQDDTQTDDSQKDD  
GQTDQDQTD DSTNDQDKKQDNTNTNPSDNNNQDQSNNDNDNDNSNNQDTS DGDS  
NSGKNDSTGSDTNKNKTDTSNKTQTNSSSIEKTN

### 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 strain 168 ponA partial protein (774-914aa) expressed in E.coli. The protein is with 6xHis-SUMO tag at the N-terminus, which facilitates protein purification, detection and identification. ponA, also known as peptidoglycan glycosyltransferase/peptidoglycan DD-transpeptidase MrcA, 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.