

# Recombinant *Bacillus anthracis* pagA Protein Product Manual

## 1. Product Basic Information

**Product No.:** REP07723

**Protein Name:** Peroxiredoxin 1 (pagA)

**Aliases:** peroxiredoxin 1

**UniProt ID:** P13423

**UniProt Link:** <https://www.uniprot.org/uniprotkb/P13423/entry>

**Species Source:** *Bacillus anthracis*

**Expression System:** *E. coli*

**Protein Length:** Full Length of Mature Protein (30-764aa)

**Molecular Weight:** 89.6 kDa

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

## 2. Amino Acid Sequence (30-764aa)

EVKQENRLLNESESSSQGLLGYFSDLNFQAPMVVTSSTTGDL SIPSSELENIPSEN  
QYFQSAIWSGFIKVKKSDEYTFATSADNHVTMWVDDQEVINKASNSNKIRLEKGR  
YQIKIQYQRENPTKGLDFKLYWTDSQNKKEVISSDNLQLPELKQKSSNSRKKRSTS  
AGPTVPDRDNDGIPDSLEVEGYTVDVKNKRTFLSPWISNIHEKKGLTKYKSSPEKW  
STASDPYSDFEKVTGRIDKNVSPEARHPLVAAYPIVHVDMENIILSKNEDQSTQNTD  
SQTRTISKNTSTSRHTHTSEVHGNAEVHASFFDIGGSVSAGFSNSNSSTVAIDHLSL  
AGERTWAETMGLNTADTARLNANIRYVNTGTAPIYVLPPTSLVLGKNQTLATIKAK  
ENQLSQILAPNNYYPSKLNALPIALNAQDDFSSTPITMNYNQFLELEKTKQLRLD TDQ  
VYGNIATYNFENGRVVRVDTGSNWSEVLPQIQETTARIIFNGKDLNLVERRIAAVNPS  
DPLETTKPDMTLKEALKIAFGFNPNLQYQGKDITEFDNFQDQTSQNIKNQLAE  
LNATNIYTVLDKIKLNAKMNILIRDKRFHYDRNNAVGADES VVKEAHREVINSSTEGL  
LLNIDKDIRKILSGYIVEIEDTEGLKEVINDRYDMLNISSLRQDGKTFIDFKKYNDKLP  
LPL YISNPNYKVN VYAVTKENTIINPSENGDTSTNGIKKILIFS KKGYEIG

## 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)



**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 *Bacillus anthracis* pagA full length of mature protein protein (30-764aa) expressed in *E.coli*. The protein is with 6xHis tag at the N-terminus, which facilitates protein purification, detection and identification. pagA, also known as peroxiredoxin 1, 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.