

Recombinant strain K12 ppsA Protein Product Manual

1. Product Basic Information

Product No.: REP07877

Protein Name: Phosphoenolpyruvate Synthase (ppsA)

Aliases: phosphoenolpyruvate synthase

UniProt ID: P23538

UniProt Link: <https://www.uniprot.org/uniprotkb/P23538/entry>

Species Source: Escherichia coli (strain K12)

Expression System: E.coli

Protein Length: Full Length of Mature Protein (2-792aa)

Molecular Weight: 103.3kDa

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

2. Amino Acid Sequence (2-792aa)

SNNGSSPLVLWYNQLGMNDVDRVGGKNASLGEMITNLSGMGVSVPNGFATTADA
FNQFLDQSGVNQRIYELLDKTDIDDVTQLAKAGAQRQWIIDTPFQPELENAIREAYA
QLSADDENASFAVRSSATAEDMPDASFAGQQETFLNVQGFDAVLVAVKHVFASLF
NDRAISYRVHQGYDHRGVALSAGVQRMVRSDLASSGVMFSIDTESGFDQVVFITSA
WGLGEMVVQGAVNPDEFYVHKPTLAANRPAIVRRTMGSKKIRMVYAPTQEHEGKQV
KIEDVPQEQRDIFSLTNEEVQELAKQAVQIEKHYGRPMDIEWAKDGHTGKLFIVQAR
PETVRSRGQVMERYTLHSQGKIIAEGRAIGHRIGAGPVKVIHDISEMNRIEPGDVLVT
DMTDPDWEPIMKKASAVTNRGGRTCHAAIIARELGIPAVVCGGDATERMKDGENV
TVSCAEGDTGYVYAELEFSVKSSSVETMPDLPLKVMMNVGNDPRAFDFACLNE
GVGLARLEFIINRMIGVHPRALLEFDDQEPQLQNEIREMMKGFDSREFYVGRLETEG
IATLGAAFYPKRVIVRLSDFKSNEYANLVGGERYEPDEENPMLGFRGAGRYVSDSF
RDCFALECEAVKRVNRNDMGLTNVEIMIPFVRTVDQAKAVVEELARQGLKRGENGLK
IIMMCEIPSNALLAEQFLEYFDGFSIGSNDMTQLALGLDRDSGVVSELFDERNDAVK
ALLSMAIRAAKKQGKYVGICGQGPSDHEDFAAWLMEEGIDSLSLNPDTVVQTWLSL
AELKK

3. Storage Buffer



Enlibio Wuhan Enlibio Biotech Co.,Ltd Manuals version5.9

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 K12 ppsA full length of mature protein protein (2-792aa) expressed in E.coli. The protein is with 6xHis-SUMO tag at the N-terminus, which facilitates protein purification, detection and identification. ppsA, also known as phosphoenolpyruvate synthase, 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.