

Recombinant strain K12 POLB Protein Product Manual

1. Product Basic Information

Product No.: REP07833

Protein Name: Ap Lyase (POLB)

Aliases: AP lyase; 5'-dRP lyase; DNA pol beta; DNA polymerase beta; polymerase (DNA) beta; DNA polymerase beta subunit; 5'-deoxyribose-phosphate lyase; polymerase (DNA directed), beta

UniProt ID: P06746

UniProt Link: <https://www.uniprot.org/uniprotkb/P06746/entry>

Species Source: Escherichia coli (strain K12)

Expression System: E.coli

Protein Length: Full Length of Mature Protein (2-783aa)

Molecular Weight: 97.4 kDa

Protein Tag: N-terminal 10xHis-tagged and C-terminal Myc-tagged

2. Amino Acid Sequence (2-783aa)

AQAGFILTRHWRDTPQGTEVSFWLATDNGPLQVTLAPQESVAFIPADQVPRAQHIL
QGEQGFRLTPLALKDFHRQPVYGLYCRAHRQLMNYEKRLREGGVTVYEADVRRPPE
RYLMERFITSVWVEGDMHNGTIVNARLKPHPDYRPPKWWVSIDIETTRHGELYCIG
LEGCGQRIVYMLGPENGDASSLDFELEYVASRPQLLEKLNAAFANYDPDVIIGWNV
VQFDLRMLQKHAERYRLPLRLGRDNSELEWREHGFKNGVFFAQAKGRLIIDGIEAL
KSAFWNFSSFSLETVAQELLGEGKSIDNPWDRMDEIDRRFAEDKPALATYNLKDCE
LVTQIFHKTEIMPFLERATVNGLPVDRHGGSVAAFGHLYFPRMHRAGYVAPNLGE
VPPHASPGGYVMDSRPGLYDSVLVLDYKSLYPSIIRTFLIDPVGLVEGMAQPDPEHS
TEGFLDAWFSREKHCLPEIVTNIWHGRDEAKRQGNKPLSQALKIIMNAFYGVLTGTTA
CRFFDPRLASSITMRGHQIMRQTKALIEAQGYDVIYGDSTDFVWLKGAHSEEEAAK
IGRALVQHVNAAWAEATLQKQRLTSALELEYETHFCRFLMPTIRGADTGSKKRYAGLI
QEGDKQRMVFKGLETVRTDWTPLAQQFQQELYLRIFRNEPYQEYVRETIDKLMAG
ELDARLVYRKRLRRPLSEYQRNVPPHVRAARLADEENQKRGRPLQYQNRGTIKYV
WTTNGPEPLDYQRSPLDYEHYLTRQLQPVAEGILPFIEDNFATLMTGQLGLF



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 K12 POLB full length of mature protein protein (2-783aa) expressed in E.coli. The protein is dual-tagged with 10xHis tag at the N-terminus and Myc tag at the C-terminus, which facilitates protein purification, detection and identification. POLB, also known as AP lyase or 5'-dRP lyase or DNA pol beta, 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.