

## DNA polymerase II Protein, E. coli, Recombinant (His & Myc)

### General Information

Synonyms: dinA;DNA polymerase II;polB;Pol II

Protein Construction: 2-783 aa

Species: E. coli

Expression Host: E. coli

Accession: P21189

Molecular Weight: 97.4 kDa (predicted)

AA Sequence:

```
AQAGFILTRHWRDTPQGTEVSFWLATDNGPLQVTLAPQESVAFIPADQVPRAQHILQGEQGFRLTPLALKDF
HRQPVYGLYCRAHRQLMNYEKRLREGGVTVEADVRPPERLYLMERFITSPVWVEGDMHNGTIVNARLKPH
DYPPLKWWVSIDIETTRHGELYCIGLEGCGQRIVYMLGPENGDASSLDFELEYVASRPQLLEKLNWFANYDP
DVIIGWNVVQFDLRMLQKHAERYRLPLRLGRDNSELEWREHGFKNGVFFAQAKGRLIIDGIEALKSAFWNFSS
FSLETVAQELLGEGKSIDNPWDRMDEIDRRFAEDKPALATYNLKDCELVQIFHKTEIMPFLERATVNGLPVD
RHGGSVAAFGHLYFPRMHRAGYVAPNLGEVPPHASPGGYVMDSRPGLYDSVLVLDYKSLYPSIIRTFLIDPVG
LVEGMAQPDPEHSTEGFLDAWFSREKHCLPEIVTNIWHRDEAKRQGNKPLSQALKIIMNAFYGVLGTTACR
FFDPRASSITMRGHQIMRQTKALIEAQGYDVIYGDSTDFVWLKGAHSEEEAAKIGRALVQHVNAWVAETL
QKQRLTSALELEYETHFCRFLMPTIRGADTGSKKRYAGLIQEGDKQRMVFKGLETVRTDWTPLAQQFQQELYL
RIFRNEPYQEYVRETIDKLMAGELDARLVYRKRLRRPLSEYQRNVPPHVRAARLADEENQKRGRPLQYQNRG
TIKYVWTTNGPEPLDYQRSPLDYEHYLTRQLQPVAEGILPFIEDNFATLMTGQLGLF
```

### QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 90% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

### Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

---

**Protein Background**

Thought to be involved in DNA repair and/or mutagenesis. Its processivity is enhanced by the beta sliding clamp (dnaN) and clamp loader.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481