

## POLL Human

**Description:** POLL Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 320 amino acids (1-300) and having a molecular mass of 36.0 kDa. POLL is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Catalog #: ENPS-189

For research use only.

**Synonyms:** Polymerase (DNA directed) lambda, Pol beta2, DNA polymerase beta-2, DNA polymerase kappa, BETAN, POLKAPPA, DNA polymerase beta-N, EC 2.7.7.7, EC 4.2.99.

**Source:** E.coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MLMHHQKYLQ RFLGGKREKK  
QKEACSIPGI GKRMAEKIIE ILESGHLRKL DHISESVPVL ELFSNIWGAG TKTAQMWWYQQ  
GFRSLEDIRS QASLTQQAI GLKHYSDFLE RMPREEATEI EQTVQKAAQA FNSGLLCVAC  
GSYRRGKATC GDVDVLITHP DGRSHRGIFS RLLDSLREQE FLTDDLVSQE ENGQQQKYLG  
VCRLPGPGRR HR

**Purity:** Greater than 90% as determined by SDS-PAGE.

### Formulation:

The POLL solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 0.1M NaCl and 30% glycerol.

### Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

DNA polymerase POLL is involved in base excision repair (BER). POLL is a low-fidelity polymerase that takes part in both spontaneous and DNA damage-induced mutagenesis. Furthermore, POLL takes part in the mutagenic bypass of T-T dimers. Pol lambda possesses terminal transferase and 5-deoxyribose-5-phosphate lyase activity which is synchronized by PCNA and replication protein A.

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