

Recombinant human DNA polymerase lambda/POLL protein

Catalog Number: ATGP1255

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-300aa

UniProt No.

Q9UGP5

NCBI Accession No.

AAH03548

Alternative Names

DNA polymerase lambda, BETA-N, POL-KAPPA, Pol beta2, POLKAPPA

PRODUCT SPECIFICATION

Molecular Weight

36 kDa (320aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 30% glycerol, 0.1M NaCl

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

DNA polymerase lambda, also known as POLL, is a DNA polymerase involved in base excision repair (BER). POLL is a low-fidelity polymerase which plays a role in both spontaneous and DNA damage-induced mutagenesis. In addition, POLL may play a role in the mutagenic bypass of T-T dimers. Pol lambda possesses terminal transferase and 5'-deoxyribose-5-phosphate lyase activity. These activities have been found to be coordinated by PCNA and replication protein A. Recombinant human POLL protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH> MLMHHQKYLQ RFLGGKREKK QKEACSIPGI GKRMAEKIIE ILESGHLRKL DHISESVPVL
ELFSNIWGAG TKTAQMWWYQQ GFRSLEDIRS QASLTTQQAI GLKHYSDFLE RMPREEATEI EQTVQKAAQA FNSGLLCVAC
GSYRRGKATC GDVDVLITHP DGRSHRGIFS RLLDSLREQE FLTDDLVSQE ENGQQQKYLG VCRLPGPGRR HRRLDIIVVP
YSEFACALLY FTGSAHFNRS MRALAKTKGM SLSEHALSTA VVRNTHGCKV GPGRVLPPTPT EKDVFRLLGL PYREPAERDW

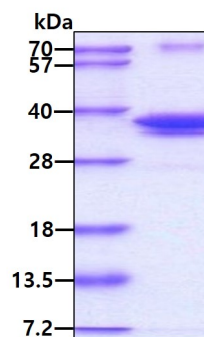
General References

O Wang J., et al. (2001) Cancer Res. 61:5366-5369.

Zhang Y., et al. (2000) Nucleic Acids Res. 28:4147-4156.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.