

POLE3 Human

Polymerase (DNA Directed), Epsilon 3 Human Recombinant
RCP1679

Product Overview

Name POLE3 Human

Description

Polymerase (DNA Directed), Epsilon 3 Human Recombinant

Accession (Primary) [Q9NRF9](#)

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.

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.

Source

E.coli.

Physical Appearance

Sterile Filtered colorless solution.

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.

Purity

Greater than 90% as determined by SDS-PAGE.

Amino acid sequence

MGSSHHHHHH SSSLVPRGSH MLMHHQKYLQ RFLGGKREKK QKEACSIPGI GKRMAEKIIE ILESGHLRKL
DHISESVPVL ELFSNIWGAG TKTAQMWYQQ GFRSLEDIRS QASLTTQQAI GLKHYSDFLE RMPREEATEI
EQTVQKAAQA FNSGLLCVAC GSYRRGKATC GDVDVLITHP DGRSHRGIFS RLLDSLREQE FLTDDLVSQE
ENGQQQKYLQ VCRLPGPGRR HRLDIIVVP YSEFACALLY FTGSAHFNRS MRALAKTKGM SLSEHALSTA

VVRNTHGCKV GPGRVLPTPT EKDVFRLGL PYREPAERDW.

Precautions

POLE3 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: ([Q9NRF9](#))