

POLL, 1-300aa, Human, His tag, E.coli

Cat.NO.: TP03456

3th Edition

Synonyms:DNA polymerase lambda, BETA-N, POL-KAPPA.

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.

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

Molecular Weight:36 kDa (320aa), confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMLMHHQKYLQRFLGGKREKKQKEACCSIPGIGKRMAEKIIEILESGHLRKLDHISES
VPVLELFSNIWGAGTKTAQMWYQQGFRSLEDIRSQASLTTQQAIGLKHYSDFLERMPREEATEIEQTVQKAAQAFN
SGLLCVACGSYRRGKATCGDVDVLITHPDGRSHRGIFSRLDLSLRQEGFLTDDLVSQEENGQQQKYLGVCRPLPGP
GRRHRRLDIIVVPYSEFACALLYFTGSAHFNRSMRALAKTKGMSLSEHALSTAVVRNTHGCKVGPGRVLPPTPEKD
VFRLLGLPYREPAERDW

Purity:> 95% by HPLC

Concentration:0.5 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.