DNA Polymerase Lambda (POLL) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	DNA polymerase lambda (Poll), Recombinant Protein
Full Product Name	Recombinant Rat DNA polymerase lambda (Poll)
Product Gene Name	Poll recombinant protein
Product Synonym Gene Name	Poll
Sequence	MDPQGILKAF PKRKKIHADP SSNALAKIPK REAGDARGWL SSLRAHIMPT GIGRARAELF EKQIIQHGGQ VCSAQAPGVT HIVVDEGMDY ERALRLLRLP QLPPGAQLVK SAWLSLCLQE KKLTDTDGFS LSSPKRSLNE PQPSKSGQDA SAPGTQGVLP RTTLSLSPPC TRAVSPPPKA EKPPKTQTQL SSEDEASDGE GPQVSSADLQ ALISGHYPTP PGEDGGPDPA PEALGKWVCA QPSSQKATNY NLHITEKLEV LAKAYNVQGD KWRALGYAKA INALKSFHKP VSSYQEACSI PGVGRRMAEK VMEILESGHL RKLDHISDSV PVLELFSNIW GAGTKTAQMW YHQGFRSLED IRGLASLTAQ QAIGLKHYDD FLDRMPREEA AEIEQMVRVS AQAFNPGLLC VACGSFRRGK VTCGDVDVLI THPDGRSHQG IFSPLLDSLR QQGFLTDDLV SQEENGQQQK YLGVCRLPGA GQRHRRLDII VVPYSEFACA LLYFTGSAHF NRSMRALAKT KGMSLSEHAL SAAVVRNSQG VKVGAGQVLP TPTEKDVFKL LGLPYREPAE RDW
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	62,401 Da
Sequence Positions	1-573, full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q5RKI3
Species	Rat
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Poll recombinant protein	MBS1354670 is a recombinant protein targeting Poll. Also known as Recombinant Rat DNA polymerase lambda (Poll). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Poll recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Poll. It may not necessarily be applicable to this product.

NCBI GI #	62079061
NCBI GeneID	361767

NCBI Accession #	NP_001014190.1
UniProt Primary Accession #	Q5RKI3
UniProt Related Accession #	Q5RKI3
GenBank Nucleotide #	NM_001014168.1
NCBI Official Full Name	DNA polymerase lambda
NCBI Official Synonym Full Names	DNA polymerase lambda
NCBI Official Symbol	Poll
UniProt Protein Name	DNA polymerase lambda
Protein Family	DNA polymerase
UniProt Gene Name	Poll
UniProt Synonym Gene Names	Pol LambdaCurated
NCBI Protein Information	DNA polymerase lambda
UniProt Comments for Poll	DNA polymerase that functions in several pathways of DNA repair. Involved in base excision repair (BER) responsible for repair of lesions that give rise to abasic (AP) sites in DNA. Also contributes to DNA double-strand break repair by non-homologous end joining and homologous recombination. Has both template-dependent and template-independent (terminal transferase) DNA polymerase activities. Has also a 5'-deoxyribose-5-phosphate lyase (dRP lyase) activity.
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