

Recombinant Human DNA Polymerase β

Catalog No: C159

Description	Recombinant Human DNA Polymerase beta is produced by our E.coli expression system and the target gene encoding Ser2-Glu335 is expressed with a 6His tag at the C-terminus.
Source	E.coli
Alternative name	DNA Polymerase Beta; POLB
Accession No.	P06746
Formulation	Supplied as a 0.2 μ m filtered solution of 20mM TrisHCl, 100mM NaCl, 1mM DTT, 1mM EDTA, 50% Glycerol, pH 7.8.
Quality Control	Purity: Greater than 95% as determined by reducing SDS-PAGE. Endotoxin: Less than 0.1 ng/ μ g (1 IEU/ μ g) as determined by LAL test.
Shipping	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
Storage	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Amino Acid Sequence	MSKRKAPQETLNGGITDMLTELANFEKNVSQAIHKYNAYRKAASVIAKYPHKIKSGAEAKKLPGVGTK IAEKIDEFLATGKLRKLE KIRQDDTSSSINFLTRVSGIGPSAARKFVDEGIKTLEDLRKNEDKLNHHQRIGLKYGDFEKRIPREEM LQMQDIVLNEVKKVDSE YIATVCGSFRRGAESSGDMVLLTHPSFTSESTKQPKLLHQVVEQLQKVHFITDTLSKGETKFMGVC QLPSKNDEKEYPHRRIDI RLIPKDQYYCGVLYFTGSDIFNKNMRAHALEKGFTINEYTIRPLGVTGVAGEPLPVDSEKDIFDYIQWK YREPKDRSEVEHHHHH H
Background	Human DNA polymerase β is constitutively expressed in cells. It fills in gaps in DNA that are formed following base excision repair. Repair polymerase that plays a key role in base-excision repair. Has 5'-deoxyribose-5- phosphate lyase (dRP lyase) activity that removes the 5' sugar phosphate and also acts as a DNA polymerase that adds one nucleotide to the 3' end of the arising single-nucleotide gap. It conducts 'gap-filling' DNA synthesis in a stepwise distributive fashion rather than in a processive fashion as for other DNA polymerases. The activity cannot be affected by Aphidicolin, which is an inhibitor of DNA polymerase β .

SDS-PAGE

